SUPERDVR & WS 401
USB/SERIES CARDS

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Introduction

Summarization

Thank you for choosing our digital video capture cards.

1 Channel, 4 Channel, 8 Channel and 16 Channel cards adopt MPEG4 compression format, and enable maximum 16 channels real-time or none real-time surveillance. Our cards are mature and cost-effective products that should be your ideal choices. They enable synchronous audio and video compression and transmission, with their powerful compression rate and network transmission function. They are widely used in banks, intelligent communities, traffic management units, medical systems, educational systems, armed forces and so on.

This manual is suitable for SuperDVR 4.3, which supports WS 401 cards.

In this manual, you will learn how to install the hardware and driver (software), and how to setup the systems of this range of products. Please make sure your operations with the products are strictly in accordance with the manual, so as to keep the stability of the digital surveillance systems.

The following are standard functions of the products:

(1) Schedule record mode

Users can choose any term in a day to record and set up record modes, i.e. sensor alarm record, motion detection record, manual record, Schedule Record.

(2) Motion detection mode

Motion detection areas are adjustable and maximum 16 areas for each channel. Users can also set motion detection sensitivity for each channel. The system begins to record only when motion of the detected object happens, and it will stop recording after a certain period, this function is adjustable by users.

(3) Sensor alarm record mode

With extra alarm board, the system enables alarm input and output.

(4) Recycling record mode

Users can set recording storage sequence for HDD partitions. The recording storage will automatically swap to the next partition when it is full. If all the partitions are full and recycling record mode is enabled, the former recorded data will be covered by new data. Users can also set HDD minimum storage alarm. Then once the present storage space is less then the minimum storage and recycling record mode is not enabled, the record will automatically stop.

(5) PTZ control function

Support a number of decoders. Users can control multiple speed domes and integrative cameras, including pan, tilt, zoom, focus and iris adjustment for PTZ devices. Support preset point and auto scout.

(6) Users management

Different users have different rights, user names and passwords, so as to ensure system security.

(7) Multi-channel display

Support different multi-channel display modes, full screen display and auto dwell display.

- (8) Watch dog function

The 16 Channels card has watchdog function. In case SuperDVR driver or windows system is frozen, the watchdog will restart the computer and login SuperDVR system again automatically.

- (9) One PC support 1 to 4 cards of the same model, the maximum frame rate can be 200 fps and 16 channels at most.
- (10) Support 320x240 / 640x480 (NTSC), 352x288 / 704x576 (PAL) standard resolutions.
- (11) Image color adjustable for each channel, including contrast, lightness, hue and saturation.
- (12) MPEG4 compression format, greatly reduce HDD usage
- (13) Powerful video playing back functions, including playing back, pause, stop, fast-forward, single-frame play and image capture.
- (14) Support advanced search mode. Users can search by date/time, camera, record mode, and random combination of the three methods.
- (15) Support recorded files backup, delete by date/time, camera.
- (16) Convenient to extend system functions by software upgrade.
- (17) Supply multiple languages, including Chinese (Traditional), English, German, Spanish, Portuguese and other customized languages.
- (18) CPU and storage resources saving by advanced

technology

- (19) Remote Surveillance and PTZ control through LAN, Intranet, and Internet.
- (20) Support alarm pre-record.
- (21) Support buzzer, email alarm out.
- (22) Can greatly decrease fragmented files while using NTFS partition.
- (23) User-friendly graphical user interface.

System Requirements

WS 401 series cards system requirements

Card / PC Module	WS 401
CPU	Intel PIII processor，minimum 800MHz
Motherboard	Intel 815/845/865/915 series
HDD	80G minimum
RAM	256M minimum
VGA	GeForce2，GeForce4，FX5200，ATI Rage128
OS	Windows2000 / XP
DirectX	9.0

Table 1.1 WS 401series cards system requirements

Notice, motherboards listed below which has passed the test can work well with WS 401: GIGA: GA-8IRXI (Intel 845D)

- GA-8IE2004 (Intel 845E)
- GA-6OXT (Intel 815EP)
- GA-8PE800 (Intel 845PE)

- GA-8IPE1000-G (Intel 865PE)
- ASUS: P4S8X (Sis 648)
- TUSL2-C (Intel 815EP)
- P4P800 (Intel 865PE)
- MSI: MS-6566E (Intel 845E)
- Intel845DDA+ (Intel 845E)

TD 3316 system requirements

Card / PC Module	WS 401
CPU	Intel P4 2.8G minimum
Motherboard	Intel 865/915
HDD	160G minimum
RAM	512M minimum
VGA	NVIDIA GeForce MX440/FX5200 ATI RADEON 7500/ X300/ X250/ X5518
OS	Windows 2000(SP4 above)/ Windows XP(SP1above)
DirectX	9.0

Table 1.2 WS 401 system requirements

Notice, motherboards listed below which has passed the test can work well with WS 401:

- Foxconn 865A01（Intel 865）
- Ga-81pe1000-G 865（Intel 865）
- Asus P4p800 865（Intel 865）
- ASUS P5GD1-VM 915（Intel 915）
- MSI 6728 865（Intel 865）
- Abit IS7-E 865（Intel 865）

- ASUS-P4GPL-X 915（Intel 915）
- ASROCK 775I915PL-SATA2 915（Intel 915）

WS 401 USB cards system requirements

Card / PC Module	WS 401
CPU	Intel P4 Celeron processor，minimum 1700MHz
Motherboard	Intel 845/865/915 series
HDD	80G minimum
RAM	256M minimum
VGA	GeForce2，GeForce4，FX5200，ATI Rage128
OS	Windows 2000(SP4 above)/2003(SP1 above)/XP(SP2 above)
DirectX	9.0
USB	2.0

Table 1.3 WS 401 system requirements

WS 401 card system requirements

Card / PC Module	WS 401
CPU	Intel P4 Celeron processor 2.0G minimum
Motherboard	Intel 845/865/915 series
HDD	80G minimum
RAM	256M minimum
VGA	GeForce MX400、ATI 9200、（32M above）
OS	Windows 2000/2003/XP
DirectX	9.0

Table 1.4 WS 401system requirements

Notice, motherboards listed below which has passed the test can work well with TD 4104:

- ASROCK 775I915PL-SATA2
- Asus P4p800SE
- ASUS P5VDC-X
- GA G8i845GVW-RZ
- GA-k8vT890
- MSI 865PE
- IWILL i845G
- Foxconn 865GV

Special Notice:

If recorded disk partition's format is FAT32 and the system has run for a long time, the system will create a lot of data fragments that may results in system runs slowly. It's recommended to make disk defragmenter every 10 to 30 days. We strongly suggest that use NTFS format for record disk partition.

System Specifications

- Format: PAL/NTSC
- Resolution: WS 401support 320x240 / 640x480 (NTSC), 352x288 / 704x576 (PAL), TD3316 supports 352×240 / 704×480 (NTSC), 352x288 / 704x576 (PAL)and TD 4104 supports 320×240 (NTSC) , 352×288 (PAL).
- Maximum Frame rate per channel: 25 fps (PAL), 30 ftp (NTSC)
- Screen set: resolution 1024×768, color quality 16 bits or 32 bits
- Compression code rate: 50 kbps – 1.2 Mbps

- Data format: MPEG4

Hardware installation

Video Capture Card Hardware

WS 401 Card Hardware

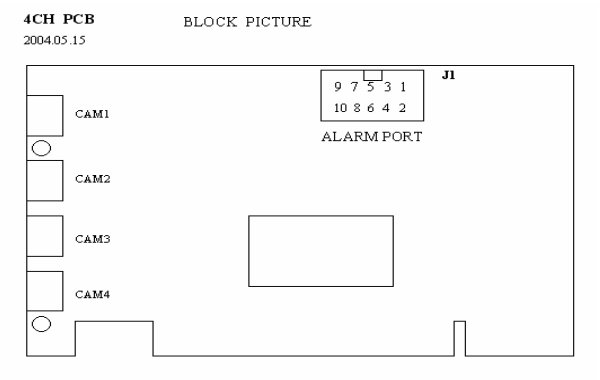


Figure 2.1 WS 401 Video Capture Card

Pin Port	Define	Interpret
1PIN	5V	Power Source (5V)
2PIN	ALARM_COM	Alarm COM
3PIN	ALARM_NC	Alarm Normal Close
4PIN	ALARM_IN1	Alarm Input 1
5PIN	ALARM_NO	Alarm Normal Open
6PIN	ALARM_IN2	Alarm Input 2
7PIN	GND	Ground
8PIN	ALARM_IN3	Alarm Input 3
9PIN	GND	Ground

Pin Port	Define	Interpret
10PIN	ALARM_IN4	Alarm Input 4

Table 2.1 WS 401 card pins

TD WS 401 Card Hardware

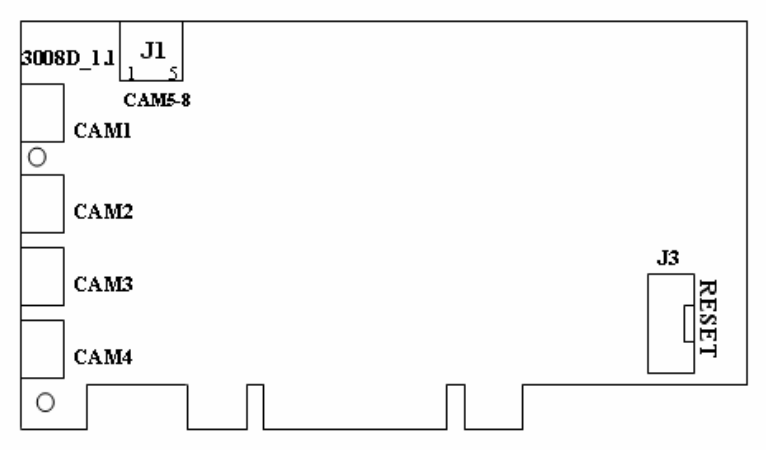
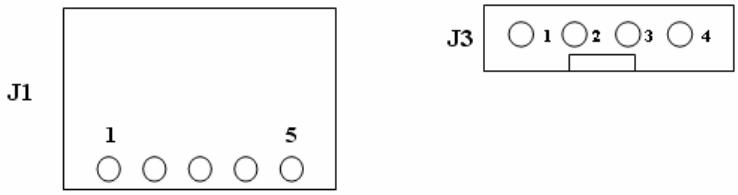


Figure 2.2 TD 3008 Video Capture Card



PIN1	CAMIN5
PIN2	CAMIN5
PIN3	CAMIN7
PIN4	CAMIN8
PIN5	GND

PIN1	RESET+
PIN2	RESET-
PIN3	RESET+
PIN4	RESET-

Figure 2.3 pin definitions of TD 3008 Video Capture Card

WS 401 Card Hardware

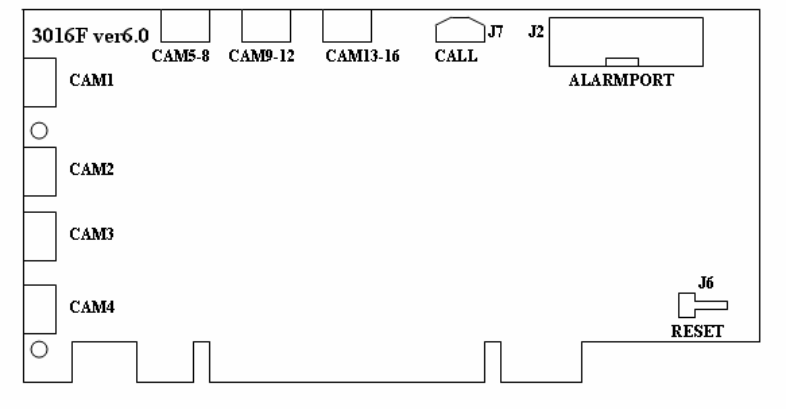


Figure 2.4 WS 401Video Capture Card circuit link for Watchdog function

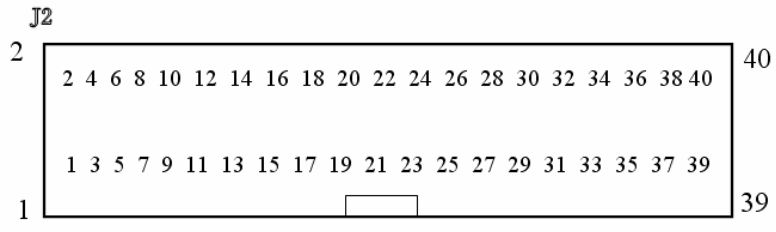


Figure 2.5 WS 401Video Capture Card Alarm Port

The Alarm Port pin definitions of TD 3016 Card are as below:

Pin Port	Define	Interpret	Pin Port	Define	Interpret
Pin1	Alarm_in1	Alarm Input 1	Pin21	Alarm_out5	Alarm Output 5
Pin2	Alarm_in2	Alarm Input 2	Pin22	Alarm_out6	Alarm Output 6

Pin Port	Define	Interpret	Pin Port	Define	Interpret
Pin3	Alarm_in3	Alarm Input 3	Pin23	Alarm_out7	Alarm Output 7
Pin4	Alarm_in4	Alarm Input 4	Pin24	Alarm_out8	Alarm Output 8
Pin5	Alarm_in5	Alarm Input 5	Pin25	Alarm_out9	Alarm Output 9
Pin6	Alarm_in6	Alarm Input 6	Pin26	Alarm_out10	Alarm Output 10
Pin7	Alarm_in7	Alarm Input 7	Pin27	Alarm_out11	Alarm Output 11
Pin8	Alarm_in8	Alarm Input 8	Pin28	Alarm_out12	Alarm Output 12
Pin9	Alarm_in9	Alarm Input 9	Pin29	Alarm_out13	Alarm Output 13
Pin10	Alarm_in10	Alarm Input 10	Pin30	Alarm_out14	Alarm Output 14
Pin11	Alarm_in11	Alarm Input 11	Pin31	Alarm_out15	Alarm Output 15
Pin12	Alarm_in12	Alarm Input 12	Pin32	Alarm_out16	Alarm Output 16
Pin13	Alarm_in13	Alarm Input 13	Pin33	Alarm_Com	Alarm COM
Pin14	Alarm_in14	Alarm Input 14	Pin34	Alarm_NO	Alarm Normal Open
Pin15	Alarm_in15	Alarm Input 15	Pin35	Alarm_NC	Alarm Normal Close
Pin16	Alarm_in16	Alarm Input 16	Pin36	GND	Ground
Pin17	Alarm_out1	Alarm Output 1	Pin37	GND	Ground
Pin18	Alarm_out2	Alarm Output 2	Pin38	5V	Power Source (5V)
Pin19	Alarm_out3	Alarm Output 3	Pin39	Not Used	Not Used
Pin20	Alarm_out4	Alarm Output 4	Pin40	Not Used	Not Used

Table 2.2 Pins definitions of WS 401Card

WS 401 Card Hardware

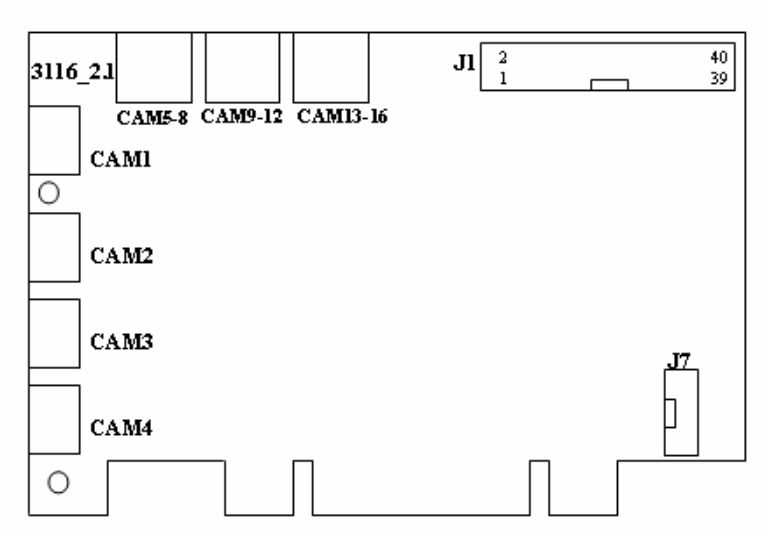
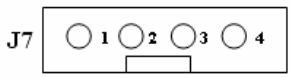
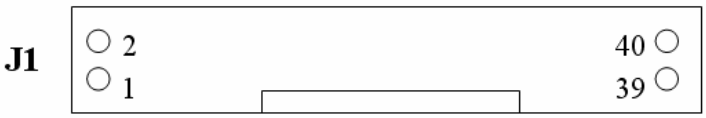


Figure 2.6 TD 3116 Video Capture Card



PIN1	RESET+
PIN2	RESET-
PIN3	RESET+
PIN4	RESET-

Figure 2.7 Reset Pins definitions of TD3116 Video Capture Card



PIN1	AI1	PIN9	AI9	PIN17	AO1	PIN25	AO9	PIN33	ALAM-COM
PIN2	AI2	PIN10	AI10	PIN18	AO2	PIN26	AO10	PIN34	ALAM-NO
PIN3	AI3	PIN11	AI11	PIN19	AO3	PIN27	AO11	PIN35	ALAM-NC
PIN4	AI4	PIN12	AI12	PIN20	AO4	PIN28	AO12	PIN36	GND
PIN5	AI5	PIN13	AI13	PIN21	AO5	PIN29	AO13	PIN37	GND
PIN6	AI6	PIN14	AI14	PIN22	AO6	PIN30	AO14	PIN38	5V
PIN7	AI7	PIN15	AI15	PIN23	AO7	PIN31	AO15	PIN39	NOT USED
PIN8	AI8	PIN16	AI16	PIN24	AO8	PIN32	AO16	PIN40	NOT USED

Figure 2.8 Pins definitions of Video Capture Card

TD 3216 Card Hardware

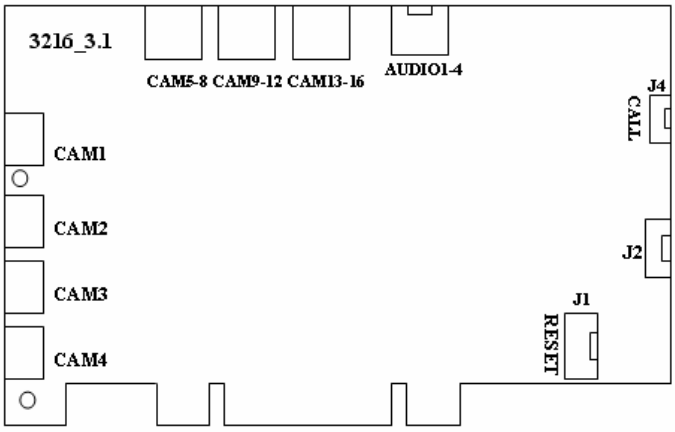


Figure 2.9 Video Capture Card

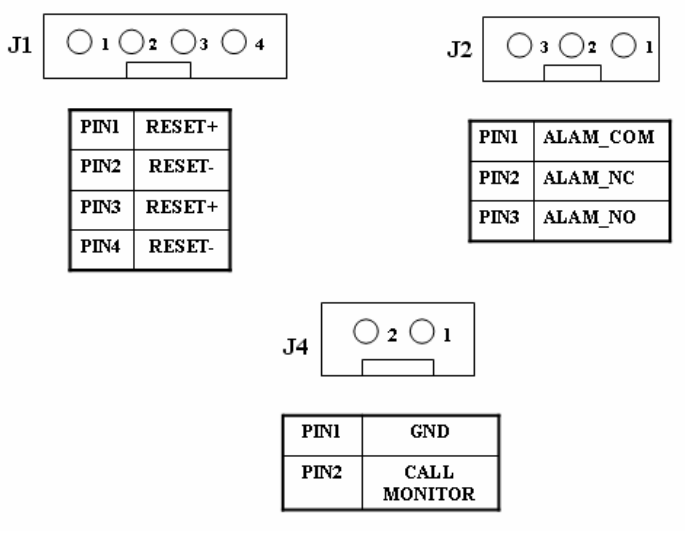


Figure 2.10 Pins definitions of Video Capture Card

TD 3316 Card Hardware

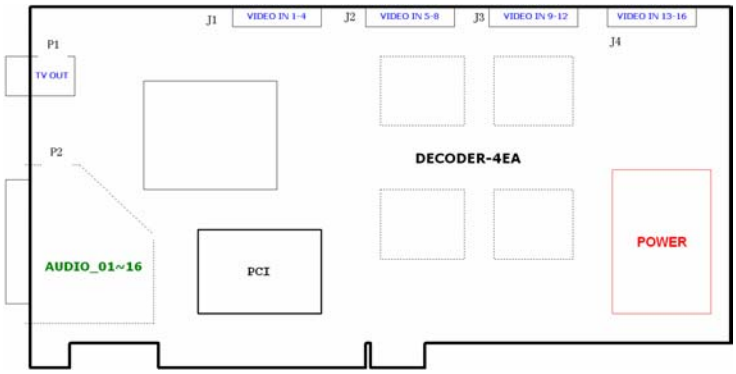


Figure 2.11 Video Capture Card

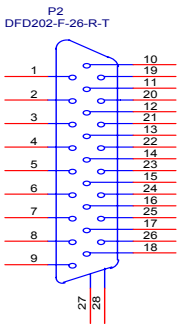


Figure 2.12 Audio Connector

PIN1	AUDIO2	PIN11	AUDIO3
PIN2	AUDIO4	PIN12	AUDIO5
PIN3	AUDIO6	PIN13	AUDIO7
PIN4	AUDIO8	PIN14	AUDIO9
PIN5	AUDIO10	PIN15	AUDIO11
PIN6	AUDIO12	PIN16	AUDIO13
PIN7	AUDIO14	PIN17	GND
PIN8	AUDIO15	/	
PIN9	AUDIO16		
PIN10	AUDIO1	PIN26	

Table 2.3 Definitions of Audio connector's PINs

J1
GiL-G-8P-S3T2-E

PIN1	VIN-1
PIN2	GND
PIN3	VIN-2
PIN4	GND
PIN5	VIN-3
PIN6	GND
PIN7	VIN-4
PIN8	GND

J2
GiL-G-8P-S3T2-E

PIN1	VIN-9
PIN2	GND
PIN3	VIN-10
PIN4	GND
PIN5	VIN-11
PIN6	GND
PIN7	VIN-12
PIN8	GND
PIN1	VIN-5
PIN2	GND
PIN3	VIN-6
PIN4	GND
PIN5	VIN-7
PIN6	GND
PIN7	VIN-8
PIN8	GND

J3
GiL-G-8P-S3T2-E

J4
GiL-G-8P-S3T2-E

Figure 2.13 Video PINs definition

TD 3101 USB Card Hardware

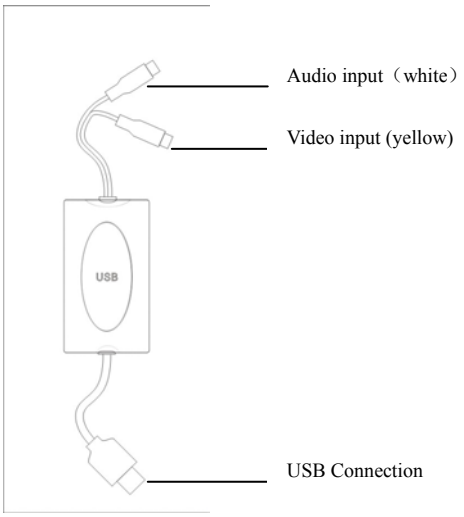


Figure 2.14 TD-3101 USB Video Capture Card

WS 401USB Card Hardware

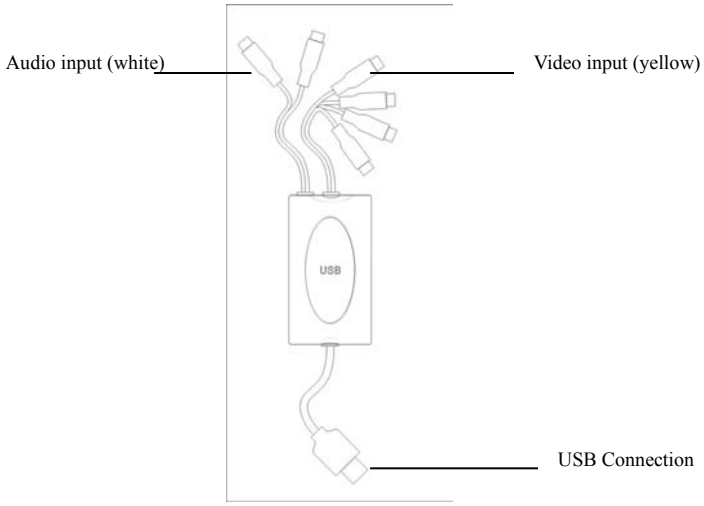
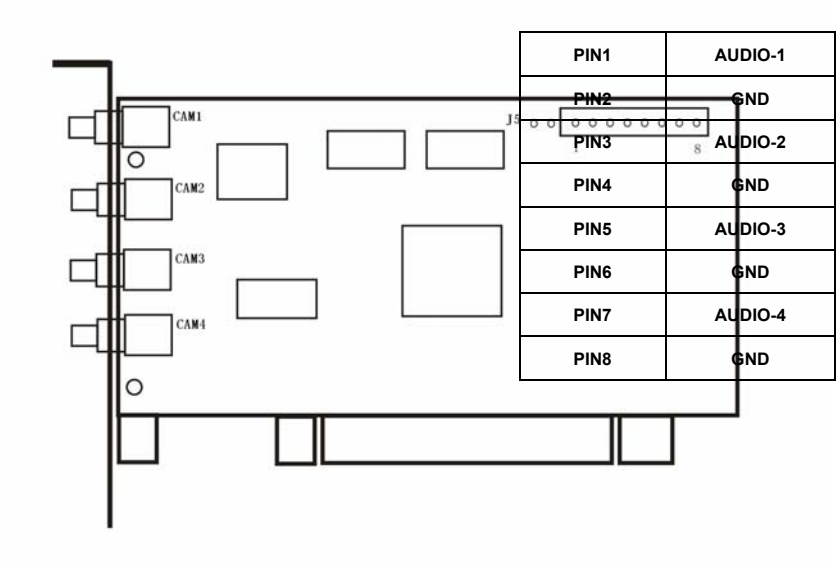


Figure 2.15 WS 401 USB Video Capture Card

Notice:

- Make sure that your PC USB interface is 2.0; WS 401 card can only support USB 2.0.
- Please accord to the following steps to safely remove the USB card: Right clicks on the Taskbar Stop device pull out the USB card.
- Using WS 401 card with other USB device simultaneously may because PC cannot identify USB card.
- Do not insert two or more USB video capture cards simultaneously.
- Do not use with the other PCI video capture card simultaneously.

WS 401 Card Hardware



PIN1	AUDIO-1
PIN2	GND
PIN3	AUDIO-2
PIN4	GND
PIN5	AUDIO-3
PIN6	GND
PIN7	AUDIO-4
PIN8	GND

Figure 2.16 WS 401 Video Capture Card

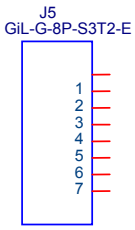
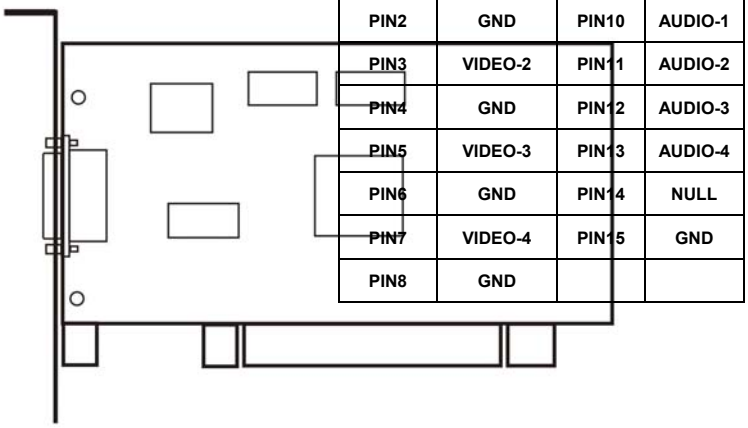


Table 2.17 Definitions of Audio connector's PINs



PIN1	VIDEO-1	PIN9	GND
PIN2	GND	PIN10	AUDIO-1
PIN3	VIDEO-2	PIN11	AUDIO-2
PIN4	GND	PIN12	AUDIO-3
PIN5	VIDEO-3	PIN13	AUDIO-4
PIN6	GND	PIN14	NULL
PIN7	VIDEO-4	PIN15	GND
PIN8	GND		

Figure 2.18 Video Capture Card

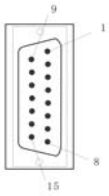


Table 2.19 Definitions of Audio and video connector's PINs

Notice: Our cards have two different ports; please refer to your user manual according to the product you purchase

Alarm Board Hardware

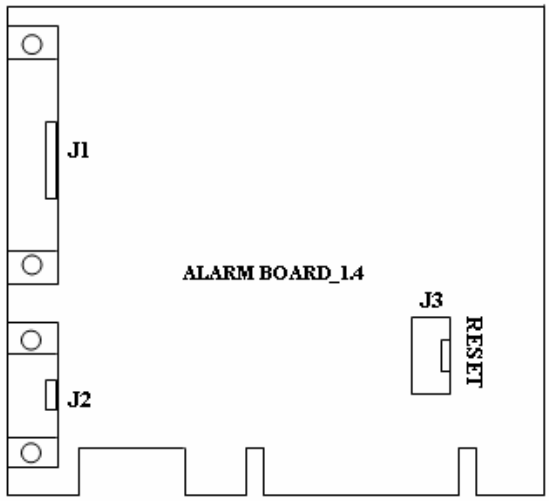
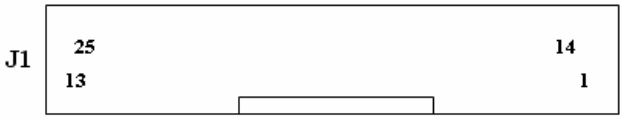


Figure 2.18 Alarm Board



PIN1	AI0	PIN6	AI5	PIN11	AI10	PIN16	AI15	PIN21	ALAM_COM
PIN2	AI1	PIN7	AI6	PIN12	AI11	PIN17	A0	PIN22	ALAM_NO
PIN3	AI2	PIN8	AI7	PIN13	AI12	PIN18	A1	PIN23	ALAM_NC
PIN4	AI3	PIN9	AI8	PIN14	AI13	PIN19	A2	PIN24	GND
PIN5	AI4	PIN10	AI9	PIN15	AI14	PIN20	A3	PIN25	VCC

Figure 2.15 Pins definitions of Alarm Board

- Connect J2 to PC serial port and you may use alarm board by SuperDVR system.
- Connect Audio Signal
- For WS 401, connect the audio input device to the microphone connector on the motherboard.

Note:

Before installing the Video Capture Card hardware in PCI port of the motherboard, make sure you've installed Microsoft DirectX 9.0. Then turn on the computer, the system will remind you to "Found new hardware".

Notice:

- Just click "cancel" and ignore the pop-up message.
- Insert the CD that contains WS series capture card driver into the CD tray, and run Setup.exe program to install the driver. The default installation path is 'C:\Program Files\SuperDVR'.
- Notice: In case it warns that 'Can't find card' when running the SuperDVR software, please restart the computer.

Install Video Capture Card Driver

Run Setup.exe, and the installation interface appears as below:

Figure 2.30 WS series video capture card installation interface

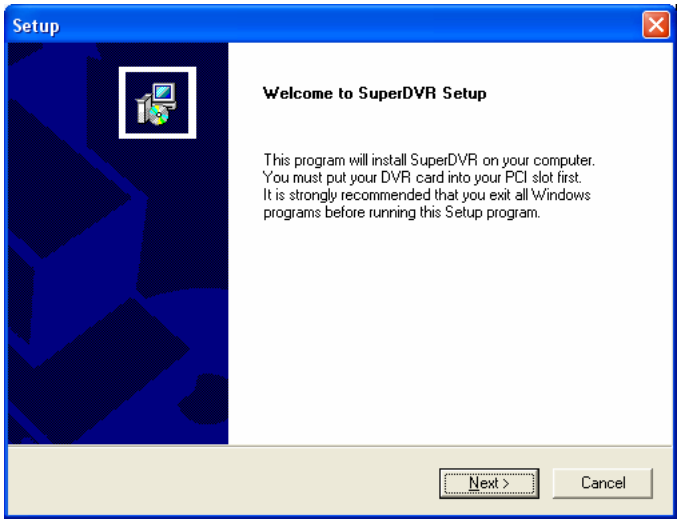

Setup
Welcome to SuperDVR Setup
This program will install SuperDVR on your computer.
You must put your DVR card into your PCI slot first.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Next >
Cancel

Figure 2.31 Welcome page

Select ‘Next’,

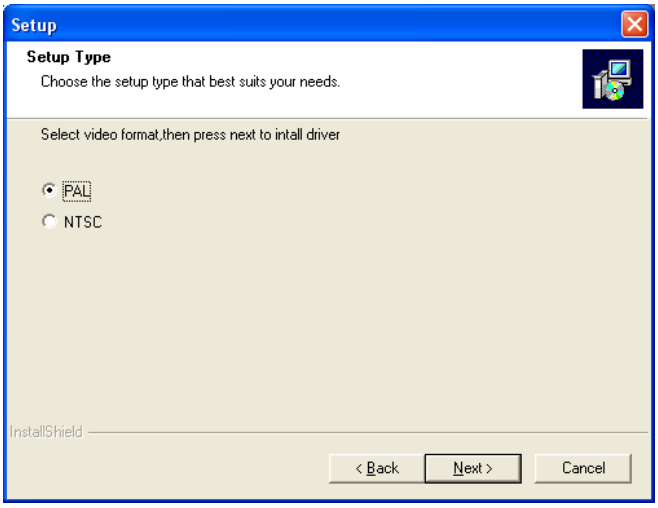


Figure 2.32 Select video formats

Select ‘Next’,

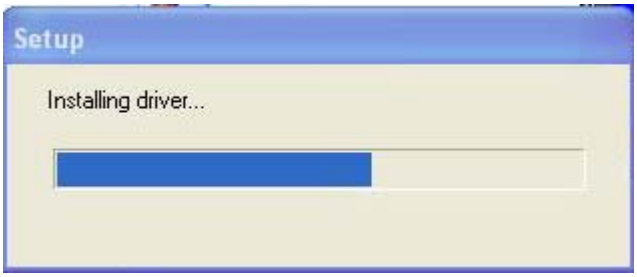


Figure 2.33 Rate of progress of driver installation

After this process it begins to install the application package SuperDVR, as below:

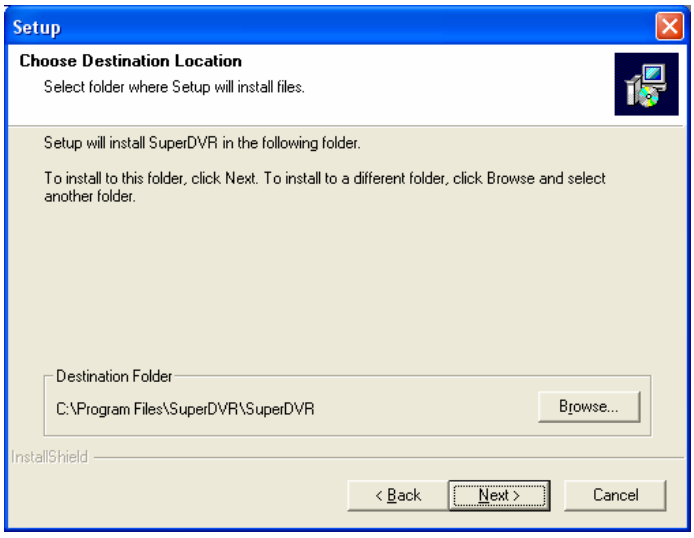

Setup
Choose Destination Location
Select folder where Setup will install files.
Setup will install SuperDVR in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\SuperDVR\SuperDVR
Browse...
InstallShield
< Back
Next >
Cancel

Figure 2.34 Select installationpass

Select the suitable option, and click ‘Next’.

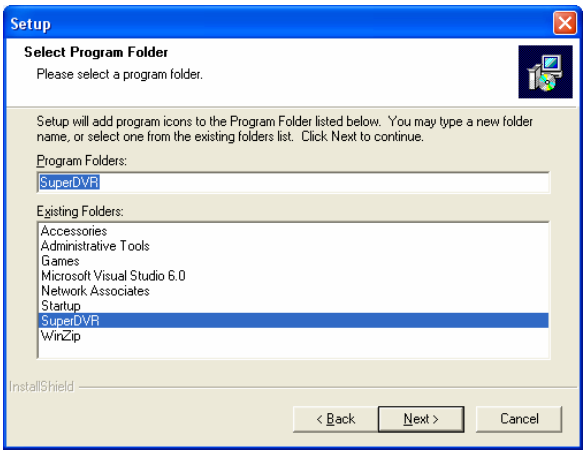


Figure 2.35 Register application

Click ‘Next’,

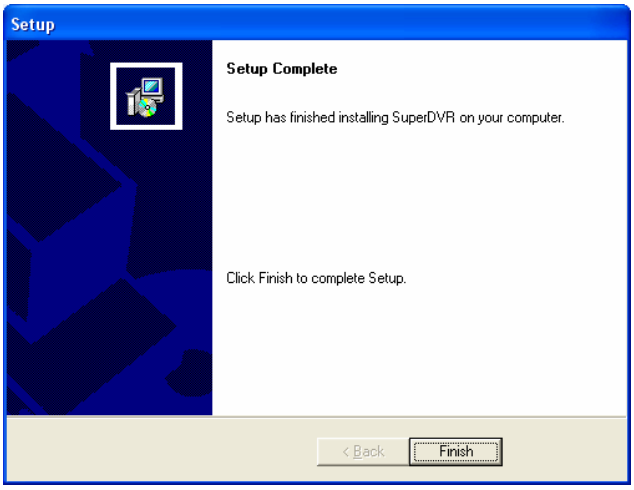


Figure 2.36 Driver and application installation finished

Click ‘Finish’

Now, after all the processes are finished, restart the computer and launch the surveillance program. It will create a shortcut on the desktop.

Figure 2.37 Shortcut of SuperDVR

Notice:

In case users cannot run the SuperDVR program, users restart the computer.

Main display Interface

Run SuperDVR program and the main display interface appear as below:

Figure 3.1 SuperDVR Main Display Interface

Display Control Panel

Display Control Panel

Figure 3.2 Display control panel

'Display control panel' includes 'Display Mode' buttons and disk

free space indicator, 'Auto Dwell' button, 1, 4, 6, 8, 9, 13, 16channels display buttons. Every button has its built-in indicator light. When switch on and off the buttons, the relative indicator lights turn on and off to indicate the working status.

Notice: Users can judge which buttons are working by the color of the buttons.

Display Modes

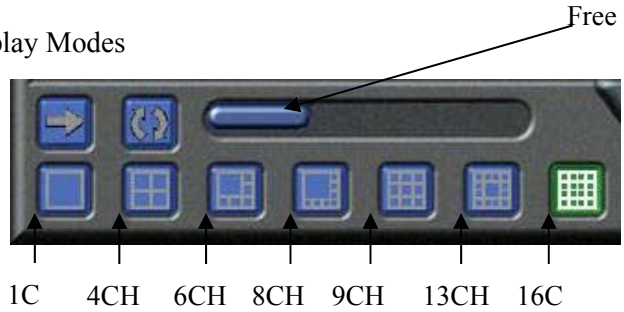


Figure 3.3 Display Modes Panel

Notice:

In case the card installed is 4 ch CARD, then only 1 channel 4 ch buttons are valid.

In case the cards installed are 2 pieces of 4 ch CARDS or a piece of 8CH card, then only 1 ch, 4 ch, 6 ch, 8 ch, 9 ch buttons are valid.

In case the cards installed are 4 pieces of 4 ch CARDS or 2 pieces of 8 ch CARDS or a 16 ch CARD, then 1 ch, 4 ch, 6 ch, 8 ch, 9 ch, 13 ch, 16 ch buttons are all valid.

Flip Pages

When the display mode is 1 ch, 4 ch, 6 ch, 8 ch, 9 ch or 13 ch,

click , system will display the next page according to the display mode.

Auto Dwell display Mode

In case users want to see all the channels in sequence, then click and enter Auto Dwell display mode.

Quick Switch

In case the present display mode is 4 ch, 9 ch or 16 ch, by clicking any image or the present display mode is 6 ch, 8 ch or 13 ch, by clicking the bigger image, the display will quickly switch to corresponding single channel display mode. When the present display mode is 6 ch, 8 ch or 13 ch, by clicking any image other than the bigger one, users can change the position of the image with the bigger one. By clicking the single image again, it will return to the former display mode.

Login

Click , and login window appears. Input the user name and password, the default user name is 'SYSTEM' with no password, users can access to the main interface. Users can change password for SYSTEM and create new user names and passwords once has entered the system.

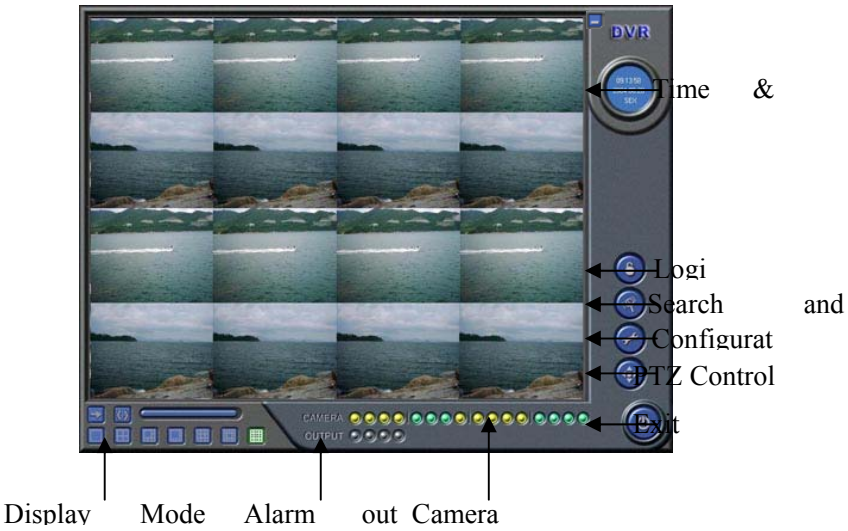


Figure 3.4 Main Interface

Record

Record Modes

According to different record triggering methods, TD series video capture cards offer users with 4 kinds of record modes:

- Schedule record mode (timer)
- Manual record mode
- Motion Detection record mode
- Sensor Alarm record mode

Motion Detection record mode and Sensor Alarm record mode are together called as Alarm Record.

- Multiple cameras record
- In case users use multiple cameras to record, every camera works

separately and the record file also saved separately. The parameters, i.e. camera ID, record date/time and record mode are all saved together with the record file.

Record Setup

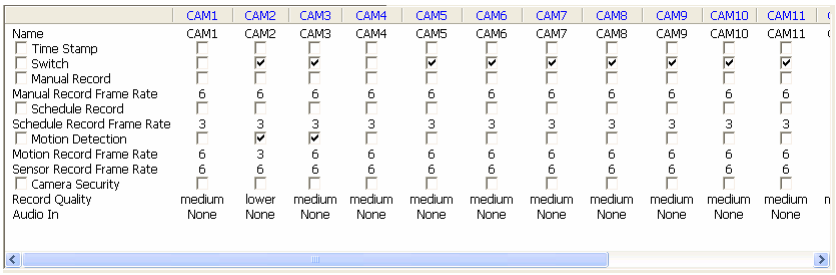

CAM1 CAM2 CAM3 CAM4 CAM5 CAM6 CAM7 CAM8 CAM9 CAM10 CAM11
Name CAM1 CAM2 CAM3 CAM4 CAM5 CAM6 CAM7 CAM8 CAM9 CAM10 CAM11
Time Stamp
Switch
Manual Record
Manual Record Frame Rate 6 6 6 6 6 6 6 6 6 6 6
Schedule Record
Schedule Record Frame Rate 3 3 3 3 3 3 3 3 3 3 3
Motion Detection
Motion Record Frame Rate 6 3 6 6 6 6 6 6 6 6 6
Sensor Record Frame Rate 6 6 6 6 6 6 6 6 6 6 6
Camera Security
Record Quality medium lower medium medium medium medium medium medium medium medium medium
Audio In None None None None None None None None None None None

Figure 3.5 Record ConfigurationPanel

In the 'Record Panel' of the Basic Configuration page, users can set all kinds of necessary parameters for recording.

- [Time stamp]: By selecting the options, the record date / time message appears in the record file images.
- [Switch]: By selecting the options, users can turn on corresponding cameras. In case there is no camera for some channel, don't select the option so as to save system resource.
- [Manual record]: By selecting the options, the relative camera images will be recorded and saved all the time.
- [Manual recording frame rate]: Select the record frame rate for manual record mode
- [Schedule Record]: Schedule record option.
- [Schedule Record Frame Rate]: Select Schedule Record frame rate
- [Motion Detection]: By selecting the options, users can set

relative channels' record mode as motion detection

- [Motion Record Frame Rate]: Select record frame rate for Motion Detection record mode
- [Sensor Record Frame Rate]: If sensors are utilized to trigger recording, users can select record frame rate here.
- [Camera Security]: The users are divided into three standards: Normal user, Power user and Administrator. By selecting the options, only administrators can see the corresponding channels.
- [Record Quality]: Select record image quality here.
- [Audio In]: SuperDVR 4.3 system can support one channel of microphone audio input signal on the PC motherboard and audio inputs on the card if it has. Users can choose one video channel associate these audio signals.

Note:

Users can select more than one record mode.

Record Status Panel

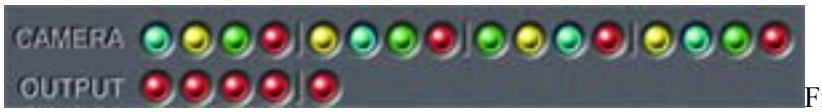


Figure 3.6 Record Status Panel and Alarm Output Status Panel

Meanings of indicator light colors in row one are as below:

- (1) Normal State
- (2) Manual Record State
- (3) Schedule Record State

- (4) Motion Detection Record State
- (5) Sensor Alarm Record State
- (6) Video Loss State

When the indicator light color turns into in row two, it means there is alarm output.

Manual Record Mode

Manual Record mode is the most commonly used record mode. In case there is any special event happens, users can select this record mode and record timely.

Note: You can select high frame rate for short time manual record, while select low frame rate for long time Schedule Record.

Sensor Alarm Record Mode

Users can use sensors to trigger sensor alarm record for relative channels. At that time, the record status indicator light will turn red .

Motion Detection Record Mode

It will enable the system to detect image changes and begin to record by activating motion detection and motion alarm record. For instance, somebody opens the door, and the system detects image changes and begins to record, then users can play back the recorded file and find out who opened door. When there is no

movement, the system won't record and that's helpful for saving system resource, and convenient for searching for event record file.

The indicator light color in the record status panel is yellow .

Note: Users may need to setup in three places so as to enable motion detection record.

Select 'Motion Detection' for certain channels in 'Basic Configuration'

Configure the motion detection areas for certain channels in 'Motion Detection configuration'

Configure working schedule for certain channels in 'Schedule configuration'

Schedule Record

Users can set working schedule for all kinds of record modes in 'Schedule configuration'. The green light in record status panel shows the corresponding channel is in Schedule Record mode. Users can change record mode to manual record at any time, and the green light will change into blue light .

Please refer to chapter 4.4 for details.

Recycling Record

If users enable Recycling Record function and all the selected HDD partitions are full, the former record data will be covered by the latest record data.

Users can set recording storage sequence for HDD partitions. The recording storage will automatically jump to the next partition when it's full. If all the partitions are full and recycling record mode has been enabled, the new data will overwrite the former recorded data automatically. Users can also set HDD minimum storage alarm. Then once the present storage space is less then the minimum storage and recycling record mode hasn't been enabled, the record will automatically stop.

System Setup

Click and enter the main setup interface.

Figure 4.1 Basic Configuration

The definitions of the buttons in Figure 4.1 are as below:

Basic Configuration

Schedule configuration

Video configuration

Motion Detection Configuration

Alarm Configuration

PTZ Configuration

User Configuration

Return

Basic Configuration

Click and enter the basic configuration page where users can setup the system or just use the defaults.

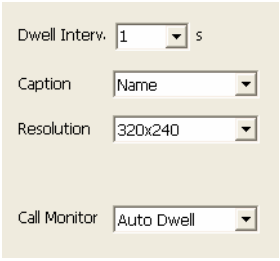


Figure 4.2 Captions and General Configuration

[Dwell Interval.]: If users enable Auto Dwell function in the main interface page, users can set the dwell time of a page here.

[Caption]: There are four options, None, ID, Name and ID/Name for users to

- Select for all the channels.
- 'None' means no title;
- 'ID' means camera numbers, i.e. 1, 2, 3 and so on
- 'Name' means camera names, i.e. Cam1, Cam2 and so on
- 'ID/Name' means both camera number and camera name, i.e. 1/Cam1, 2/Cam2 and so on

- [Resolution]: There are four options, 320×240、352×288、352×240、640×480 for users to select for all the channels. As the

video may have interlace lines if the users select 640x480, users may choose

for solve this problem, but it will occupy much more CPU loading.

- [Call Monitor] Only TD3016, TD3216 and TD3316 have call monitor function at present. Users can connect another monitor to the card and select the display modes here.

The following is about record data storage. Please check Figure 4.3.

Figure 4.3 Record data storage precept

Above, SuperDVR system shows all the available HDD partitions for users. Users can select one or more of the partitions that will be used in sequence from up to bottom. Please refer to chapter 3.3.8 to learn more about recycling record.

In the following area in the basic configuration page, users can input the computer user name and password in the relative boxes.

Then when restarting the computer system, it will access to the system with the user name and password input in the boxes.

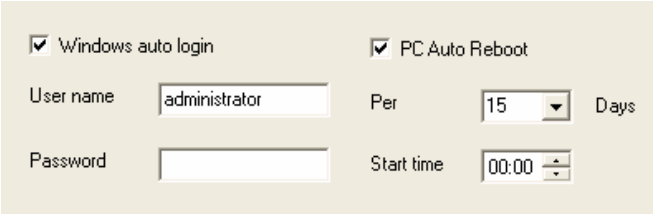


Figure 4.4 Computer System Reboot setups

As the windows system may become unstable after a couple of days continue operating, which will cause SuperDVR system unstable ? Then users should reboot the computer. Select

and set the interval by day, which will guide the system to reboot automatically according to the setups.

Click to return to the main display interface.

Video Configuration

Click and enter the video configuration page as below. Users can change the values of corresponding items, i.e. contrast, brightness, hue, saturation, auto gain, by drawing the levers on the bars. Click ‘Default’, and all the values will return to the default value.

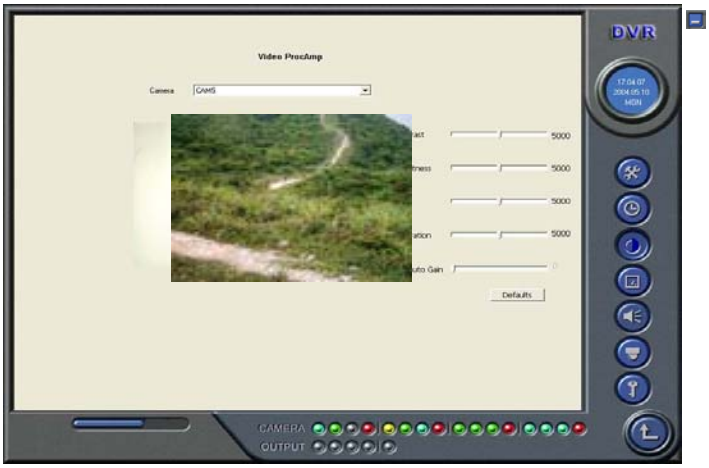


Figure 4.5 Video Configuration

Definitions of the setup items:

- [Contrast]: set image color contrast
- [Brightness]: set image brightness
- [Hue]: set image hue
- [Saturation]: set image Saturation
- [Auto Gain]: users can set it as auto or manual. Only 4CH Card and 16CH card have this function (except TD3316 because of only having manual gain function).
- [Default]: load defaults, i.e. set the first four items value as 5000 and the last item value as 0.

Motion Detection configuration

Click and enter Motion Detection Configuration page,

TD3004, TD3008, TD3016, TD3116, TD3216, TD3101, TD3104 and TD4104 as below:

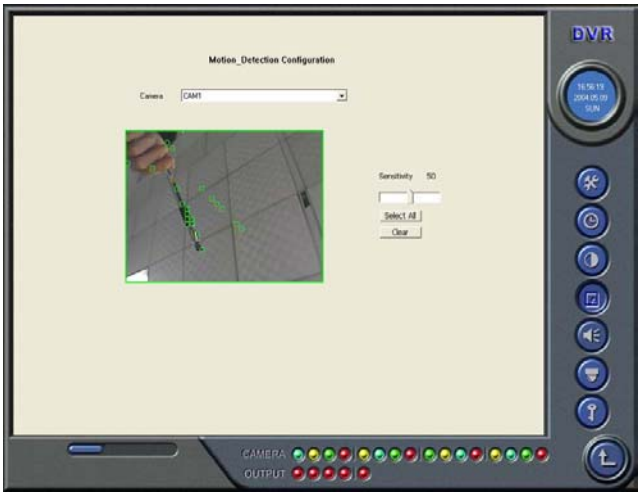


Figure 4.6 Motion Detection Configurations

Definition of the setup items:

- [Sensitivity]: users can set motion detection sensitivity here.
- [Select all]: select all the areas of the channel as detection area
- [Clear]: clear all the detection areas and then users can select customized detection areas by cursor.

TD3316:

Figure 4.7 TD3316's configuration page

- [Speed]: motion detection sensitivity.
- [Block Number]: set grid's number.
- [Defaults]: set as default.

Set Motion Detection Area

In case users want to customize the detection areas for a certain channel, first select the camera, then select 'Clear' and drag the cursor in the box in the left side. Now, users can see a green box appears which shows the motion detection area. Users can select maximum 16 customized areas for each channel.

By click 'Clear', users can clear all the selected areas.

Set Motion Detection Sensitivity

Draw the bar and select a certain value for motion detection

sensitivity.

Schedule configuration

Click and enter Schedule Configuration page as below:

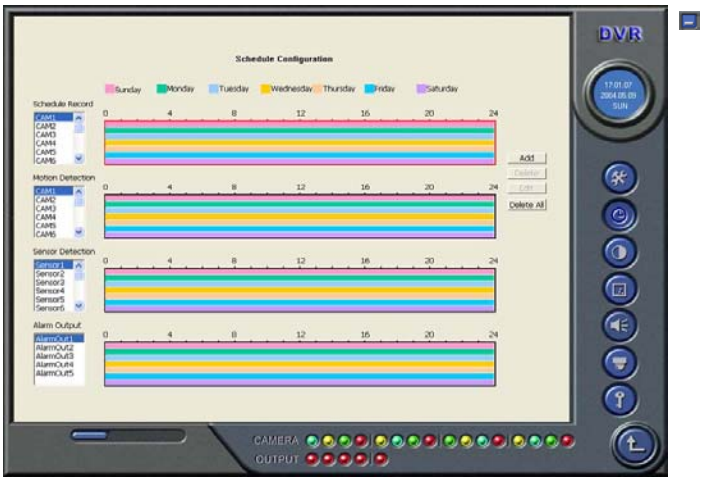


Figure 4.8 Schedule Configuration

Our TD series system offers the users with powerful schedule configuration options. Every channel has three kinds of record modes, i.e. schedule record, motion detection record and sensor alarm record. We provide users to set schedules from Sunday to Monday separately for all of the three record modes. Sensor alarm record mode has the highest priority among all record modes. Here users can set schedules for it.

When users need to edit schedule for a channel, first select the camera name in the three record modes group, and select the color

bars on the right side, then select ‘Edit’ to edit schedules. Click ‘Add’ to add schedule for a certain channel.

Note: the added schedule should not be reduplicate to the former settings.

Click ‘Delete’ to delete schedule. Click ‘Clear All’ to delete all the schedules of a certain channel.

See the Figure 4.8 and learn how to edit schedules for a channel:

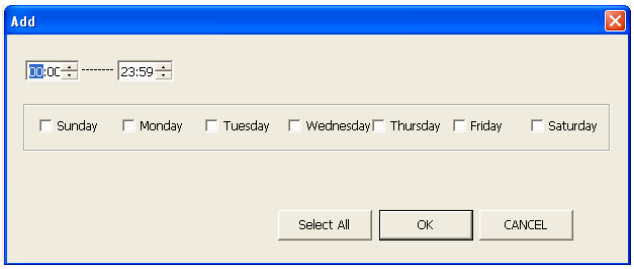


Figure 4.9 Edit Schedule

Motion Detection Alarm Configuration

Alarm Triggering Conditions Configuration

The system can receive alarm both from local place and network

(1) Local place alarm record triggering conditions configuration

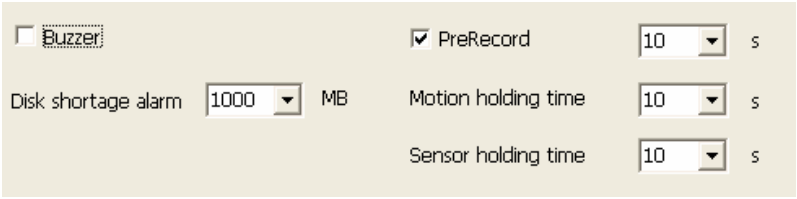


Figure 4.10 Local place alarm triggering conditions configuration

Relative Explanations:

- [Buzzer]: Users can select whether to open the computer buzzer if the alarms have been triggered and also select how long the buzzer rings
- [PreRecord]: Users can select whether to enable alarm pre-record and also pre-record time.
- [Motion Holding Time]: Motion sensor may detect some movement, only if the movement lasts for a period exceeding the default time, then the alarm record will begin and buzzer beeps.
- [Disk Shortage Alarm]: If the HDD available space is less then the set value, the buzzer will beep if 'Buzzer' has been selected.

(2) Alarm output terminal in LAN

Figure 4.11 Alarm output terminals in LAN

Select 'Remote Alarm', and enter the area as Figure 4.10 shows.

Click 'Add' to add alarm output terminals in LAN. Look the Figure below:

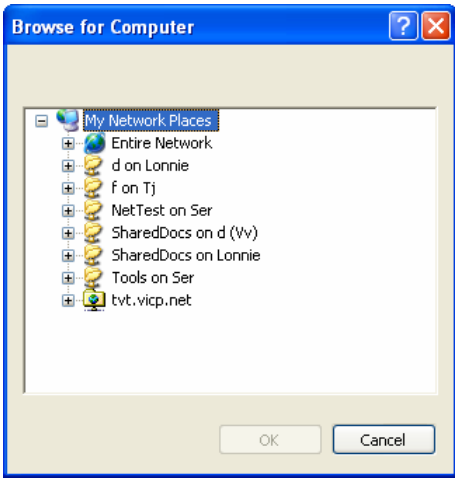


Figure 4.12 Add alarm output terminal in LAN

Find the terminal computer and click ‘OK’, and users can see the name of the selected terminal will appear in the box as below:

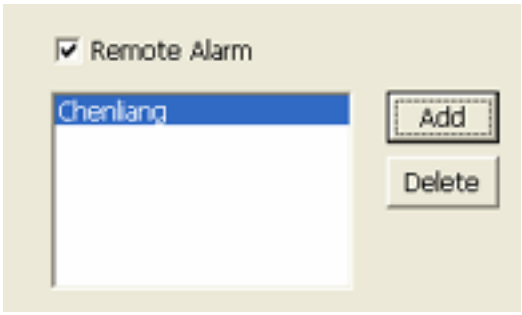


Figure 4.13 List of alarm output LAN terminals

Note: this function is only valid in LAN, not in Internet.

Alarm Record

Figure 4.14 Alarm trigger method configuration

Every sensor can trigger multiple channels to record. For example, if users select CAM1, CAM4 and CAM5 for Sensor2, then once the sensor is activated, CAM1, CAM4 and CAM5 will begin to record. Users can also select the voltage, high and low, for alarm signals.

Alarm Output

Figure 4.15 Alarm output Configuration

- [Video Loss]: Users can select alarm output for this option. For example, users select alarm_out1 and alarm_out3 and remote alarm for video loss. Then video loss of any channel will trigger alarm_out1, alarm_out3 to show red light in the Alarm output status panel (refer to Figure 3.6 for reference), and the system will give out related warning message to the terminals in List of alarm output LAN terminals (refer to Figure 4.12)
- [Disk Alarm]: when HDD available space is less than the set value (refer to Figure 4.9), it will trigger selected alarms.
- [Sensor 1]: If users have mounted sensors, when the sensors have been activated, then it will trigger the selected output alarms.
- [Sensor 2] – [sensor 16] TD3004 card has maximum 4 sensors, and TD3016 and TD3116 card have maximum 16 sensors.
- [Motion 1]: Users can set motion detection alarm output by

different alarms and remote alarm.

- [Motion 2] - [Motion 16] 4 ch card has maximum 4 motion alarms, 8CH card has maximum 8 motion alarms, and 16 ch card has maximum 16 motion alarms.

Notes：You should choose our additional alarm device board while using TD3008, TD3216, TD3316, TD4104 cards for alarm I/O.

Auto Mail Function

Press in the main interface and access to the following Alarm Configuration area where users can make motion detection alarm setup, sensor alarm setup and short of HDD space alarm setup. Now users can select the above-mentioned alarms to be output by Auto Mail.

Figure 4.16 Alarm output configuration

Click ‘Auto mail’ icon on the top left side and enter the following area to make Auto Mail setup:

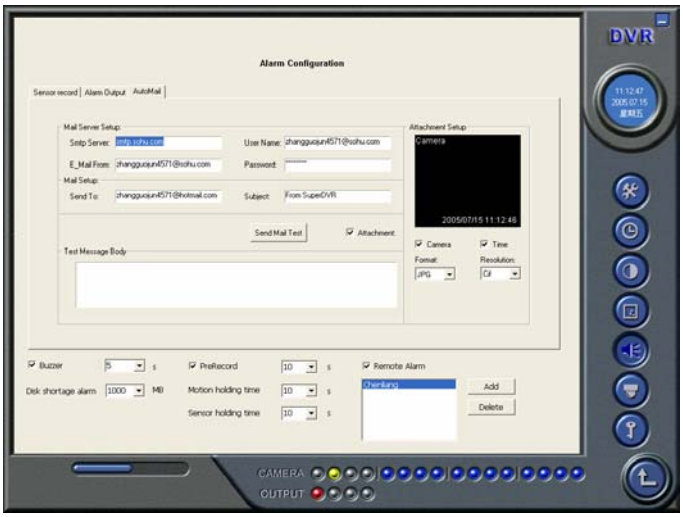


Figure 4.17 AutoMail setup interface

In this area, users can set receiver and sender’s E-mail SMTP server and address. Note: the address of receiver and sender can be the same.

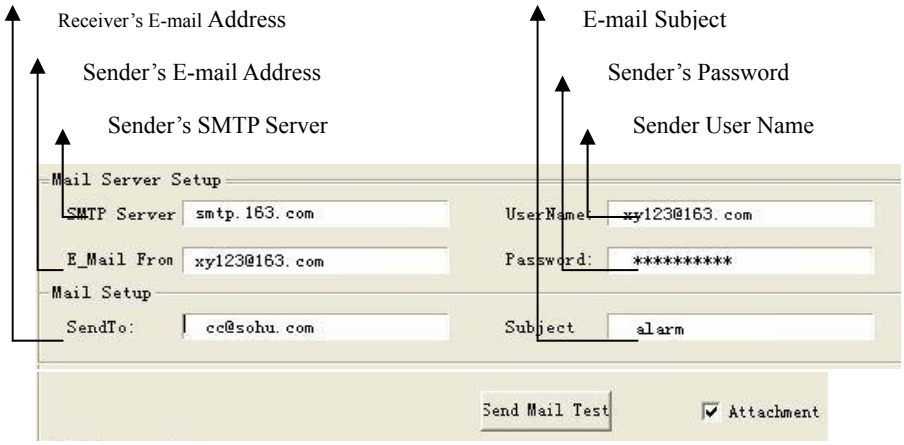


Figure 4.18 Auto Mail Setup

To test the settings, click 'Send Mail Test'. If all settings are okay, message 'Message Sent Successfully' will pop up. If some settings are wrong, there will pop up corresponding warning message.

Enable 'Attachment', then the present image when an alarm triggered will be sent to appointed mailbox.

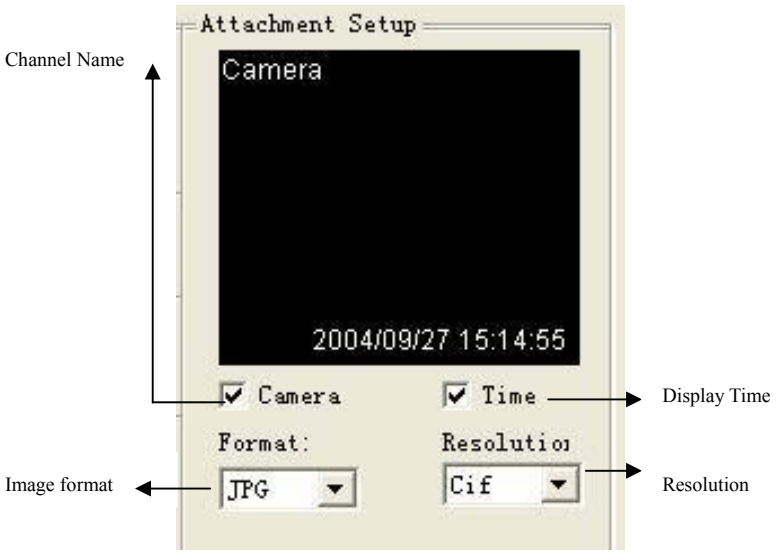


Figure 4.19 Attachment Setup

Note: for every alarm event, only one picture will be sent.

Users can put into a short message to make introduction of the Auto Mail, so the receiver will know what happened.

E-map Configuration

A E-map is used to show full geographic range covered by the whole monitoring system in the form of map .An E-map has the feature of simple operation and direct display of status and it is generally graded or tiered in the form of a tree diagram.

Edit a map

In windows OS, Save related pictures in the folder of “My computer”, As bmp or jpg.

Click to enter “Emap” → “Emap Edit”, press right key of “Load Picture” in the default interface of map and select the required map file in the related folder, open the file and the map will be displayed in this interface, as Figure 4.20

Figure 4.20

Draw the icon of camera to the corresponding position in the map, maximum 16 cameras can be set simultaneously, Click “change icon” of camera by right key to change icon and click “delete” to cancel camera. After editing, click right key in the map and select “save map” to save the current map.

A gray map icon can be drawn to the corresponding position in the map on the right and set it as a sub-map of the current map, or click the gray map icon on the left by right key and select “open” to build a new map. And you can also click the blue map icon on

the left by right key, and select “rename” to change name of the map or select “close” to cancel this map.

View the map

Click to enter Emap, where the user can view distribution of all cameras in the map, as Figure 4.21

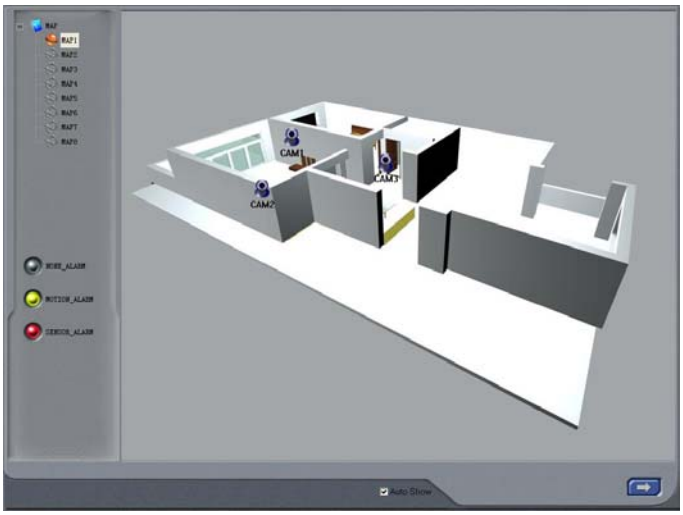


Figure 4.21

When a channel alarm, the camera icon will flash yellow alarm signal. Select “Auto show”, in case of accident alarming, an alarming screen will pop out automatically and you can know about the alarming position rapidly. Click the camera head by right key to show the screen on the spot.

Note:

The map tree currently supports three levels and it is invalid for

addition exceeding three levels.

For loading of a picture, when any side of length and width of the picture exceeds size of picture frame, it will be enlarged and shortened proportionally and standard size of picture frame is 833*678.

On this interface, click camera by right key to display the spot and the 3316 card does not support this function temporarily.

If “Auto close” is set in case that E-map pops up by automatic alarming, the E-map interface set with “Holding time” without any operation and alarm will be close automatically. “Auto Close” is invalid when the E-map is opened manually.

The map in the E-map is the default demonstration map, and the user can invite an engineering merchant to make the practical map or draw a map by their own according to their actual needs, then scan and save it in the computer to picture.

PTZ Control Configuration

Click and enter the following area:

Figure 4.20 PTZ configuration panel

Protocol Setup

Users can select different protocols, serial port number for PTZ devices.

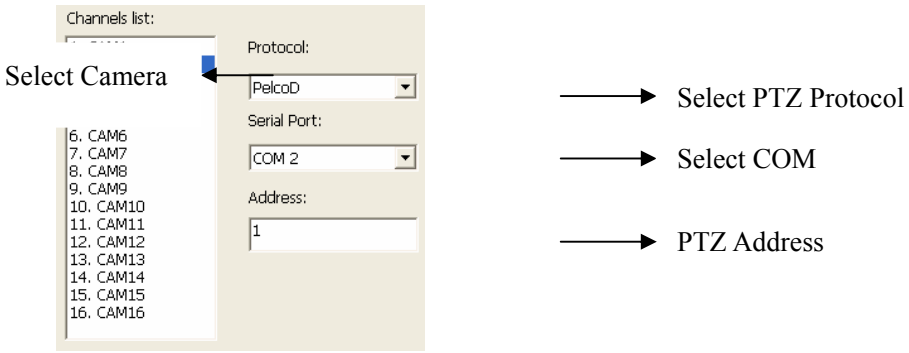


Figure 4.21 PTZ protocol setup

Relative Definitions:

- [Port]: users can set serial port number
- [Protocol]: PTZ device communication protocol
- [Address]: PTZ device communication address

Serial ports setup

Users should firstly enable the PTZ control function of a certain camera and select a port number in PTZ Protocol Setup (refer to Figure 4.22), and then set corresponding parameters in the area below:

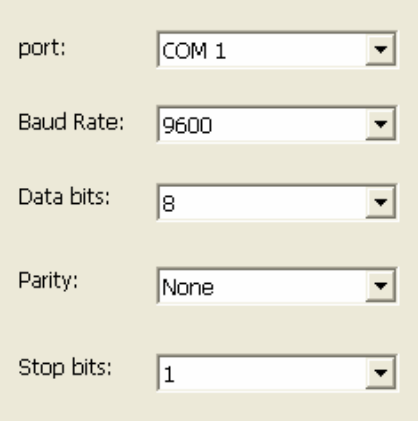


Figure 4.22 PTZ serial port setup

Relative explain:

- [Port]: users can set port number
- [Baud Rate]: set PTZ device Baud Rate, default value is 9600
- [Data bits]: default value is 8
- [Parity]: odd and even parity bit, default Null
- [Stop Bits]: default value is 1

Notice:

Users should look into the PTZ device and get the Baud Rate, Protocol, and Address first, then set their values accordingly.

Users Configuration

Click and access the following area:

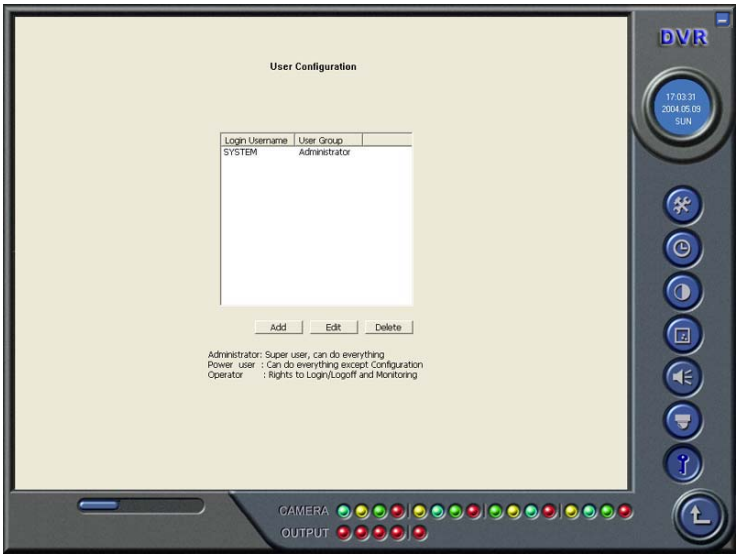


Figure 4.23 User configuration

After installing the SuperDVR system, it will automatically create an administrator user of which user name is SYSTEM with no password. Users can use this user name to log in the system and ‘Add’, ‘Edit’ and/or ‘Delete’ users’ parameters.

Change User rights

Select a user in User Configuration area (refer to Figure 4.23), and click ‘Edit’ and enter Edit User area, as below:

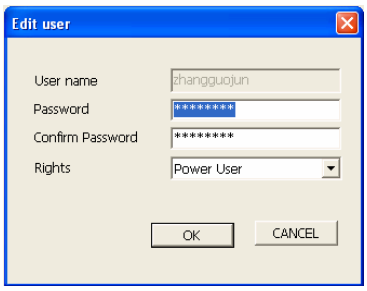


Figure 4.24 User password and rights edit

Users can edit user’s password and rights here, but not the user name.

Note: The system offers three kinds of rights:

Administrator: this kind of user of the highest rights to change all the settings and playing back.

Power user: this kind of user cannot access Basic Configuration and change settings, but has all the other rights of Administrator.

Normal: this kind of user can only access SuperDVR main display interface (refer to Figure 3.1)

Notice:

Administrators can change Power users and Normal users’ rights, but can’t change other administrators’ rights.

Add User

Click ‘Add’ in User Configuration (refer to Figure 4.25), and access the following area:

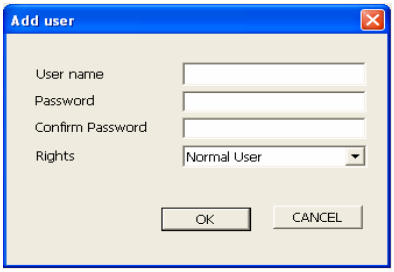


Figure 4.25 Add user

Input user name, password, confirm password and select user rights, and then click ’OK’.

Delete User

Select the user name in User Configuration (refer to Figure 4.26), and click ‘Delete’, and confirm delete. See below:

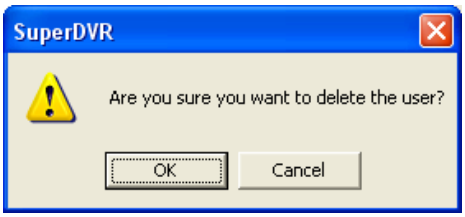


Figure 4.26 Confirm delete user

PTZ control

Click in the SuperDVR main display interface (refer to

Figure 3.1) and access to the following area:

Figure 5.1 PTZ control interface

Users can control PTZ devices by the function buttons on the right side, see as below:

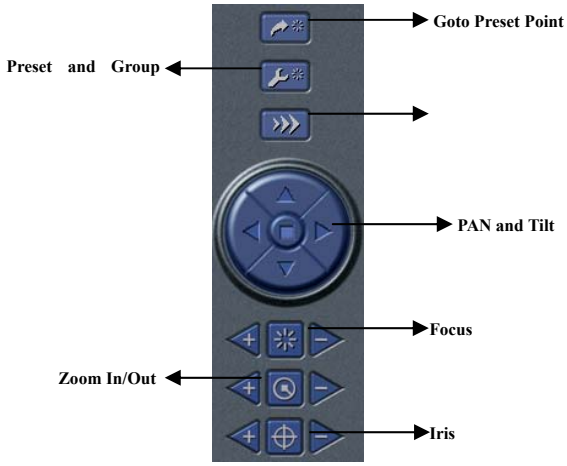


Figure 5.2 PTZ Control function buttons panel

In the upper circle, there are five function buttons, i.e. upward button, downward button, leftward button, rightward button and stop button. The other buttons are Focus buttons (+ and -), Zoom buttons (+ and -), Iris buttons (+ and -). Click and to increase and decrease the corresponding values.

When users need to utilize PTZ control, first enter PTZ Control Interface (refer to Figure 5.1), and click the corresponding channel (users can see a red fringe around the channel), then users can begin to control the enabled PTZ control enabled camera.

Notice:

After pressing left mouse button on any function button in PTZ Control Function Buttons Panel (refer to Figure 5.2), PTZ device starts moving, when user releases it, PTZ device stops moving.

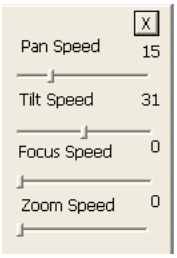


Figure 5.3 Speed adjustment

Users can select different Pan speed, Tilt speed, Focus speed and Zoom speed for PTZ devices.

- [Pan Speed]: set horizontal rotating speed
- [Tilt Speed]: set vertical rotating speed

- [Focus Speed]: set camera focus speed
- [Zoom Speed]: set zoom in/ zoom out speed

Click and a pop-up window will appear; users can choose different preset or group set.

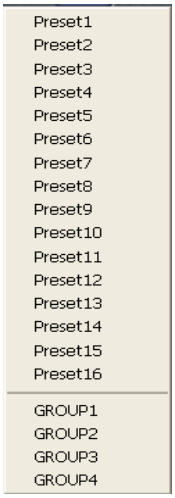


Figure 5.4 Preset and group select

Click to set Preset point and change Preset point name. Every Group includes multiple Preset points. In case users select preset1, preset2 and preset3 for group1, preset1, preset2 and preset3 will be automatically accessed in sequence after users select group1 for auto scout.

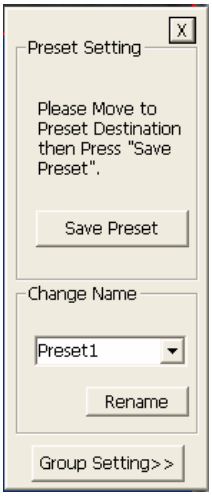


Figure 5.5 Preset

Click Group Setting>>, a pop-pup window as following will appear:

- [Dwell]: users can set the dwell time of a page here.

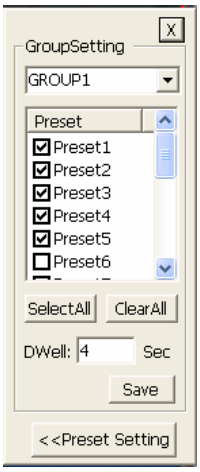


Figure 5.6 Group configuration

Record Search and playing back

Click in the SuperDVR Main Display Interface (refer to Figure 3.1) and access to the following areas:

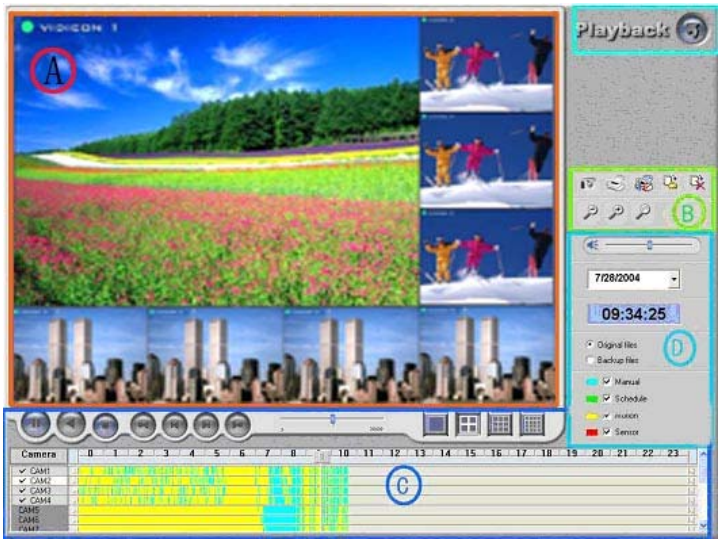


Figure 6.1 Search and playing back Interface

This interface is divided into 4 parts, i.e. record search area, record playing back area, record play area and other functions area.

Press and return to the live surveillance status.

Record Search

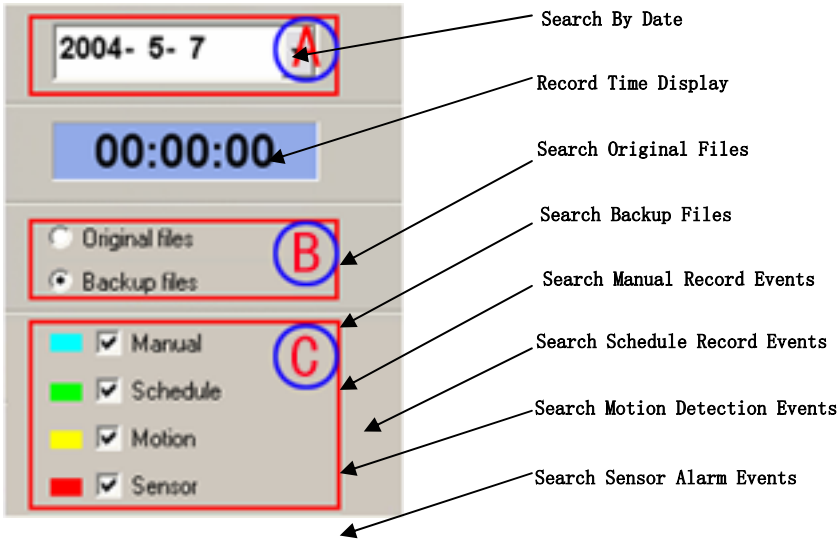


Figure 6.2 Record search areas

- A, B and C marks the areas of three search methods.
- A: Search by date (range from Jan 1st, 1971 till now)
- B: Search in backup file and original file
- C: Search by record mode. This is useful when user wants to look through some important events.

Users can select one or above of the three searching methods to search for needed record file.

Record playing back and Control

Figure 6.3 Record playing back and control

Explain of the button function:

: Play / Pause

: Stop

: Play backwards. This button is valid when playing back by single channel

: Previous Section. This button is valid when playing back by single channel

: Next Section. This button is valid when playing back by single channel

: Previous Frame. This button is valid when playing back by single channel playing back pause mode

: Next Frame. This button is valid when playing back by single channel playing back pause mode

Users can select suitable play speed in the area as below:

Figure 6.4 Play Speed Controllers

The following area shows the record files of different channels:

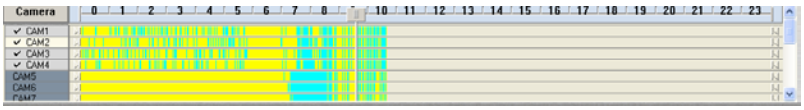


Figure 6.5 Record Files Browser

The upper bar shows the hours in a whole day. Click the bar, and it will be magnified 10 times, therefore users can see the detailed time marks. When searching for a certain section of the file, users can draw the scrolling-bar to the area that most likely contains the needed section. If necessary, click the bar once and see the magnified time marks for precise search.

The left side shows the available channels. When a certain channel has been selected for playing back, the background color will be highlighted, or it's dark gray, and a tick sign will appear beside the channel title.

The main area at the center gives details of the record files. Different colors of the bar show different kinds of record modes of the files. The following are the definitions of the color bars:

Manual Record Events Schedule Record Events

Motion Detection Record Events Sensor Alarm Record Events

Click to play selected record files. The system offers 1 ch, 4 ch, 9 ch and 16 ch playing back modes. The following is multiple channels playing back control area:

Figure 6.6 Multiple Channels Playing back Control

The system default playing back mode is one channel. That's Camera1. In case users need to change to other channels, then click and the following channel configuration window will appear, as below:

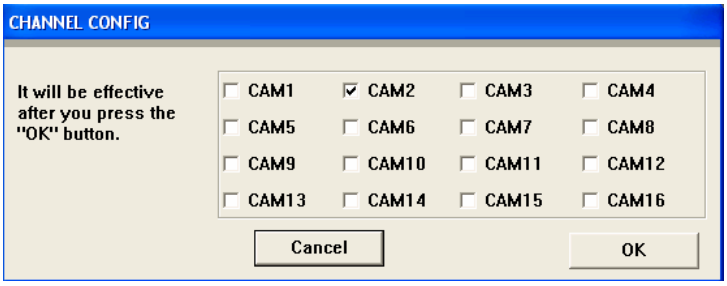


Figure 6.7 Channel Configuration Window for 1 Channel Playing back Mode

Note:

Take 16 ch card for example. But in fact, 4 pieces of 4 ch cards can make the same effect.

Users can select one channel from all the available channels for playing back.

In case user needs to play back 4 channels at the same time, then click , and the following channel configuration window will appear, as below:

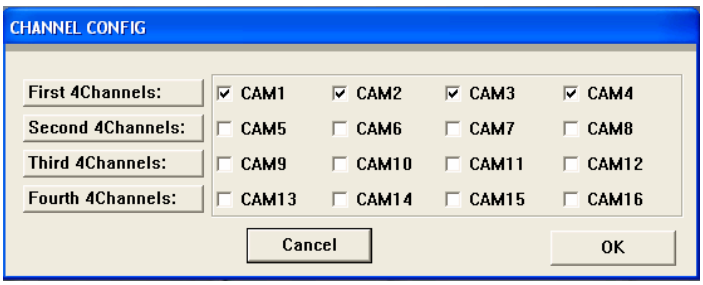


Figure 6.8 Channel configuration dialog for 4-channel playing back mode

Users can select any four channels from all the available channels for playing back.

The system offers quick select methods for users. For example: by selecting 'Third 4 Channels' Camera9, Camera10, Camera11, and Camera12 will be quickly selected simultaneously.

In case user need to play back 9 channels at the same time, then click , and the following channel configuration window will appear, as below:

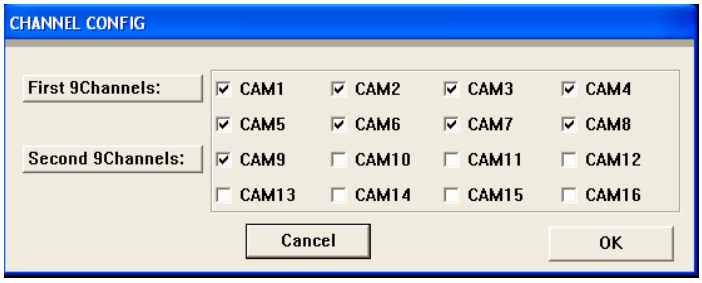


Figure 6.9 Channel configuration window for 9-channel playing back mode

Users can select any 9 channels from all the available channels for playing back. Users can also use the quick select methods by the system.

In case user needs to play back 16 channels at the same time, then click , and the following channel configuration window will appear, as below:

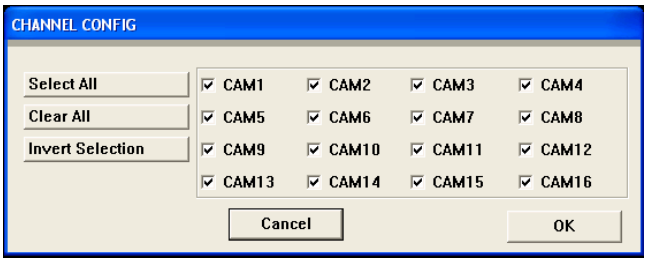


Figure 6.10 channel configuration window for 16-channel playing back mode

Then click ‘OK’ to play back.

Tips:

Click any channel and magnify it to see the single channel. Click again to return to the former playing back mode.

Other Functions

Record File Backup

Click and enter the following menu:

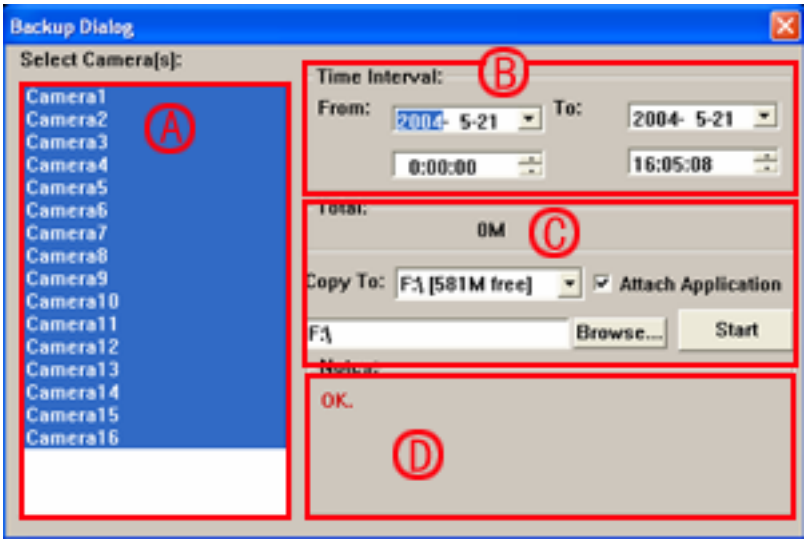


Figure 6.11 Recorded files backup

Users can select corresponding cameras and copy the record files to another path in this area. This is the file backup function of the system.

The interface is divided into four areas:

- A: Camera Selection Area
- B: Time and Date Selection Area
- C: Operation Area
- D: Information Area
- In A area, users can select one or more cameras;

In B area, users can set start time/date and end time/date, and then backup the files recorded by channels selected in A area by the time interval;

- In C area, users can set backup path
- Click 'Start' to backup files.

Delete Record Files

Click and the following window will appear:

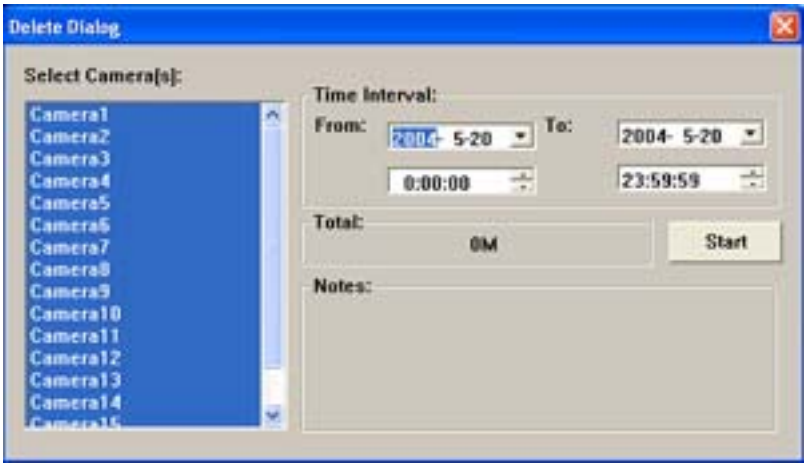


Figure 6.12 Delete recorded files

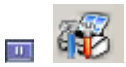
Users first select the channel on the left side, and then select start

time/date and end time/date of the record files, click ‘Start’ to delete files.

Capture Pictures

The definitions of the function buttons are as below:

: Capture picture

 : Print setup

: Print captured picture

Notice:

Only in one channel playing back pause mode (refer to Figure 6.1) this function is valid.

When in single channel playing back pause mode, automatically the following color control panel (Figure 6.12) will appear, by which user can make color rectification for the present channel, including brightness, contrast, saturation and hue, and press ‘Default’ to recover to the original settings.

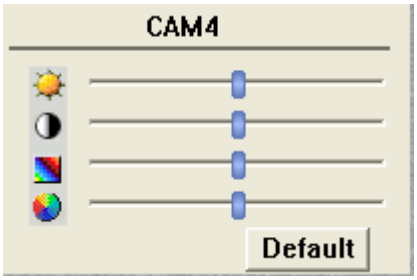


Figure 6.13 Color control panel

When in the single channel playing back pause mode, click and the following window will appear as below:

Figure 6.14 Capture multiple images in sequence

Select path and click ‘Save’ to save the picture. User can also print the images that have been captured.

Click and make corresponding print setup as below:

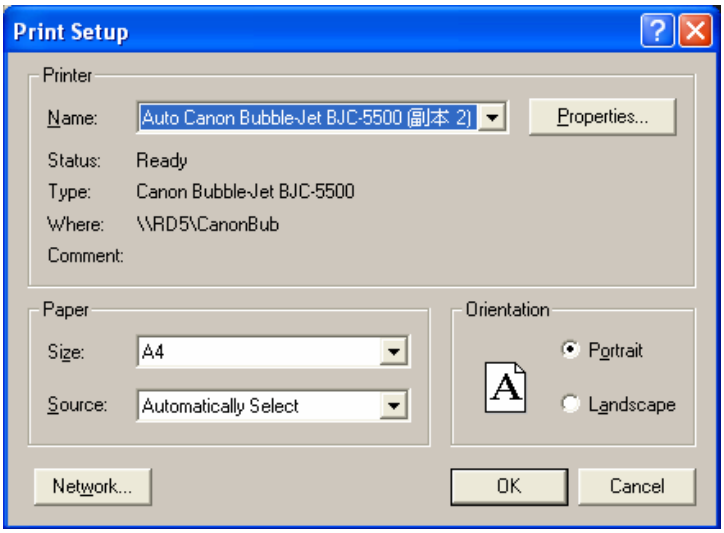


Figure 6.15 Print setup

Click users can have print preview as below:

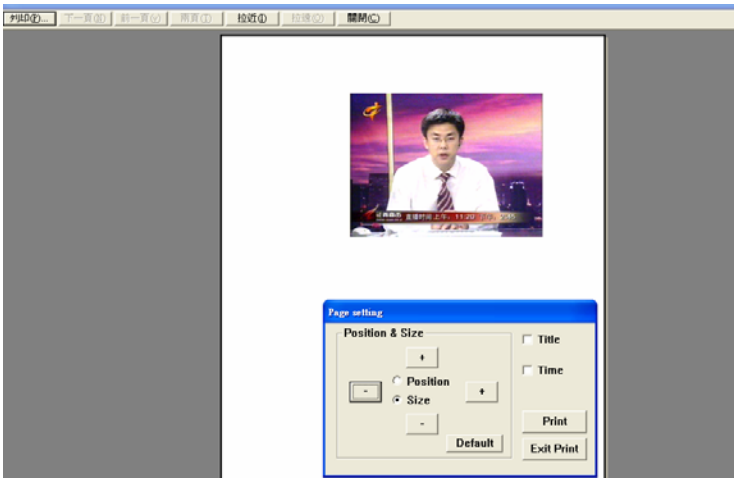


Figure 6.16 Print preview

Select Position and then click + or - to move the picture upward, downward, leftward and rightward. Select Size and then click +, - to zoom in and out the image. Press Default return to the original settings. Press 'Print' in the print preview window, users can print the image directly.

Image Zoom In / Out

When in single channel playing back state, the zoom control icons will appear. Select and click on the channel will zoom out the image. By clicking continuously, the

image will be zoomed out continuously. Select and do the some operations to get the opposite effect. Click and recover the original size. Take the following three pictures for example,

Figure 6.17 Example: original size

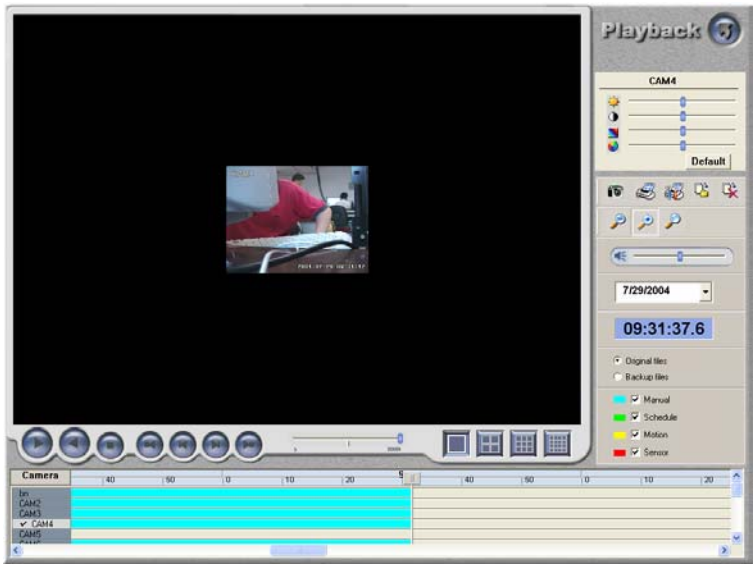


Figure 6.18 Example: zoomed out

Figure 6.19 Example: zoomed in

Remote Surveillance and Playing back

Remote Live Surveillance

Our TD series surveillance system supports Remote Surveillance through LAN, Internet and Intranet. Simply enable web cam function of the system on a computer which is connected to Internet, and the computer system will become an Internet web cam server. On any other computer that connects to Internet or the same LAN network, input the SuperDVR server address in IE browser, the end users can get high quality real time image from the server and also control the PTZ devices.

Remote Surveillance Server Configuration

Users should firstly enable the Web Camera Services in Basic Configuration (refer to Figure 4.1) and set other settings as below:

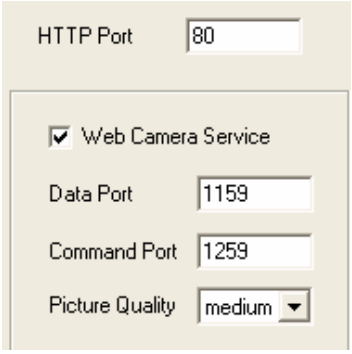


Figure 7.1 Web cam server configurations

- [HTTP Port]: Web service & download service port, default value is 80
- [Data Port]: data transmission port, default value is 1159
- [Command Port]: control command port, default value is 1259
- [Picture Quality]: default value is higher

Remote Surveillance Client-side Setup

On the client-side, users should firstly install the WebCam program. And the following is the detailed information.

Input the WebCam server IP address in Internet Explorer and the following page appears:

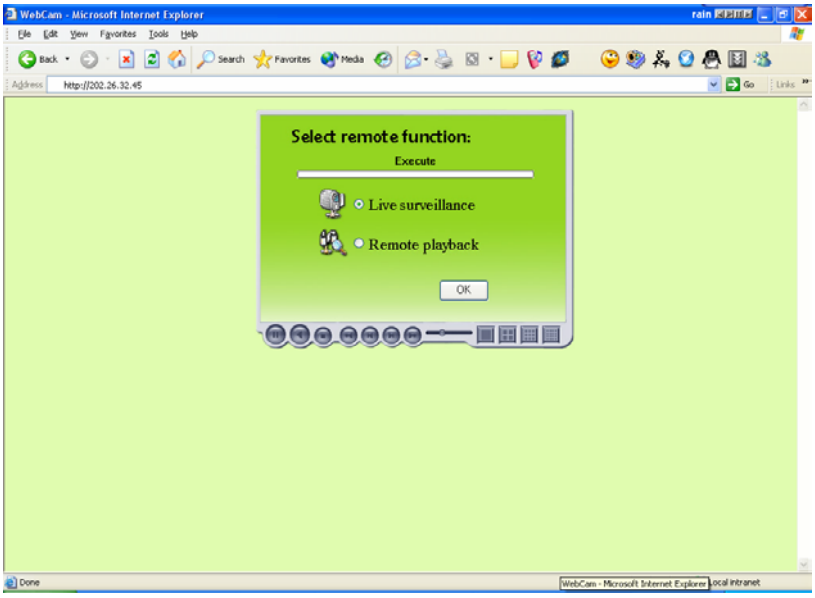


Figure 7.2 Remote surveillance and playing back services selection

- [Live Surveillance]: this option is for users to see remote live view.
- [Remote Playing back]: this option is for users to play back recorded files.

Notice:

In case the HTTP port setting is not 80 (80 is the default setting, commonly use), and when input the server IP address, users should add the port number after the IP address. For example, the server IP address is 211.148.96.234, and the port number is 81, then users should input http://211. 148. 96. 234:81 .

Select Live Surveillance and click ‘OK’ to install Remote Surveillance client-side program as below. In the next chapter, we will learn more about Remote Playing back.

When connecting to the server for the first time, then the following window will pop-up:

Security Warning
Do you want to install and run "http://192.168.0.179/ocxfile/DownLoad.ocx"?
The publisher cannot be determined due to the problems below:
The test root has not been enabled as a trusted root.
Yes
No
More Info

Figure 7.3 Inquiry for installing WebCam downloading component

Notice:

If users have already installed client-side program before and SuperDVR version has not been changed on the server, after inputting server address in IE browser, Figure 7.9 will come out without downloading or installing WebCam.

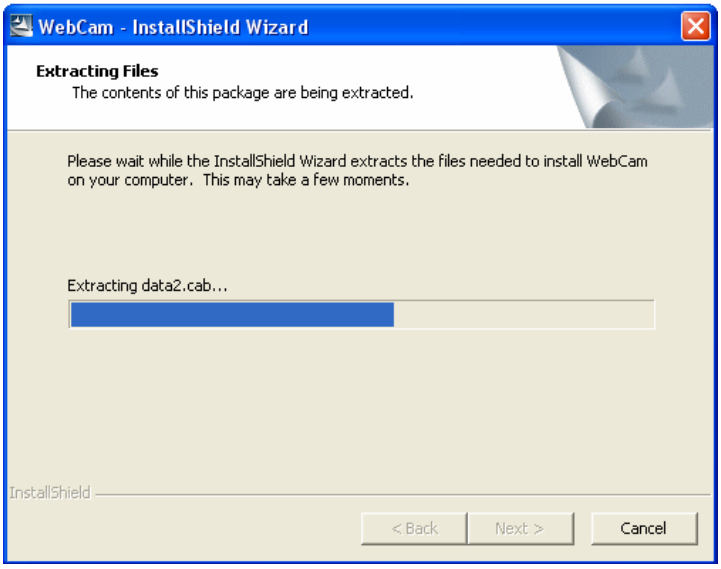

WebCam - InstallShield Wizard
Extracting Files
The contents of this package are being extracted.
Please wait while the InstallShield Wizard extracts the files needed to install WebCam on your computer. This may take a few moments.
Extracting data2.cab...
InstallShield
< Back
Next >
Cancel

Figure 7.4 WebCam client-side drivers initializing

After initialization has been completed, WebCam will be installed automatically.

Figure 7.5 WebCam installation

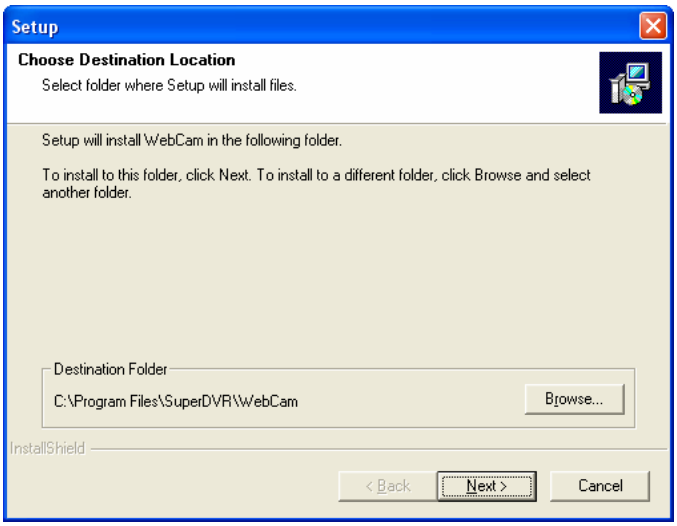

Setup
Choose Destination Location
Select folder where Setup will install files.
Setup will install WebCam in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\SuperDVR\WebCam
Browse...
InstallShield
< Back
Next >
Cancel

Figure 7.6 Default install path

Users can choose path by clicking ‘Browse’. Click ‘Next’ to continue:

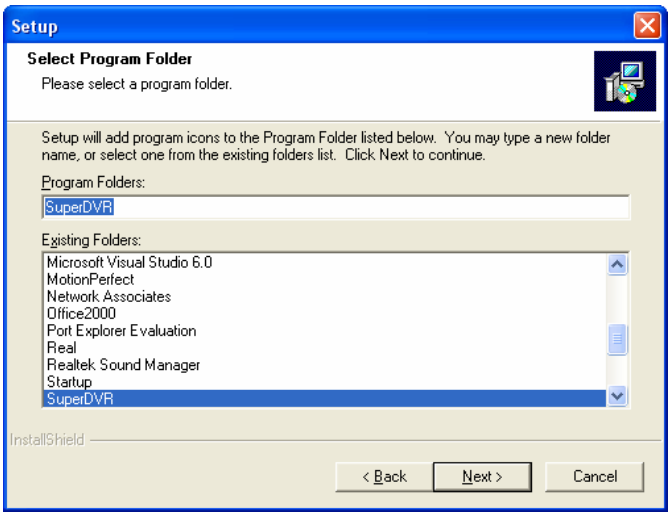


Figure 7.7 Register program folder name

Click ‘Next’ after input the folder name or select the default name, and then ‘Finish’ installation as below:

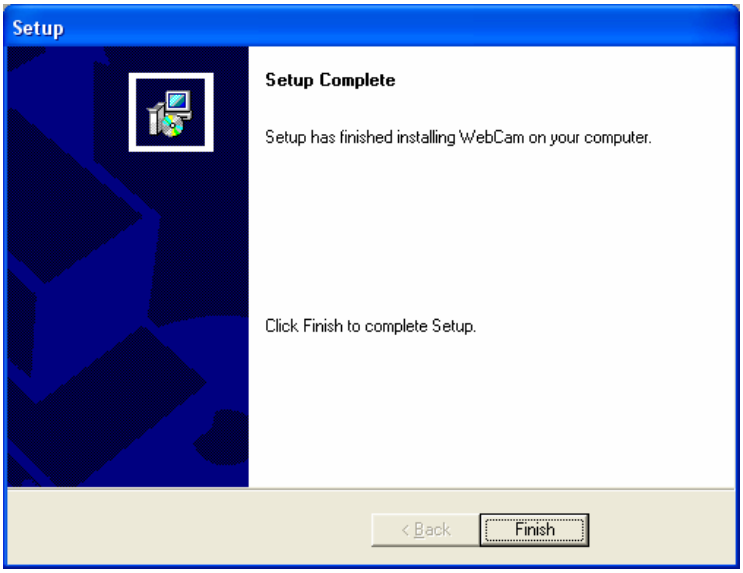


Figure 7.8 Installation success

Then the WebCam main interface will appear as below:

Figure 7.9 WebCam main interfaces

Click and input user name and password, as below:

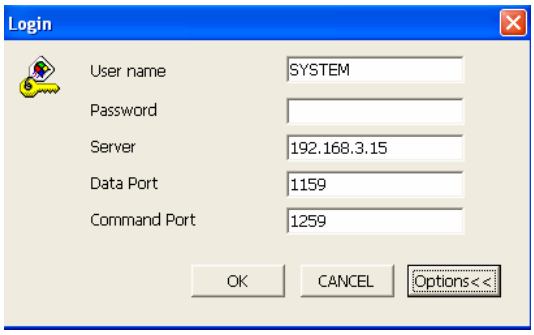


Figure 7.10 Login webcam

Click ‘Options’ and enter the advanced setting area. Users can modify default Server IP、Data Port and Command Port.

Note:

The default User name is SYSTEM without password. Users can set user name and password at the server end (refer to Figure 4.23).

After logging into server, you will get the first channel video from server, and you can adjust screen mode just like SuperDVR, the bellow is the WebCam surveillance mode interface.

Figure 7.11 WebCam surveillance state

Alarm state monitor and PTZ control are all same as SuperDVR, we would not need to give detail explanation here.

Remote Playing back

Remote Playing back server Configuration

For using our powerful remote playing back function, users should first enable Web Cam service and Remote Playing back Service in Basic Configuration (refer to Figure 4.1 and Figure 7.12).

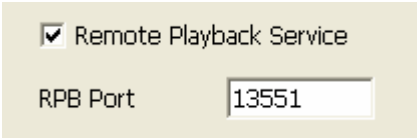


Figure 7.12 Remote playing back service configurations

[RPB Port]: the default value is 13551

Note:

Uses can enable remote playing back service without running the SuperDVR. Just enter the installation folder of SuperDVR, and activate MediaServer, users can also enable the RPB service.

Once the remote playing back service has been enabled, there will be an icon on the taskbar to remind users the service has been activated.

Figure 7.13 Remote playing back service activated

Remote playing back Client-side Setup

Users should also first download and install playing back program. This chapter will guide users how to make it.

Input server address in IE browser, and the following interface appears:

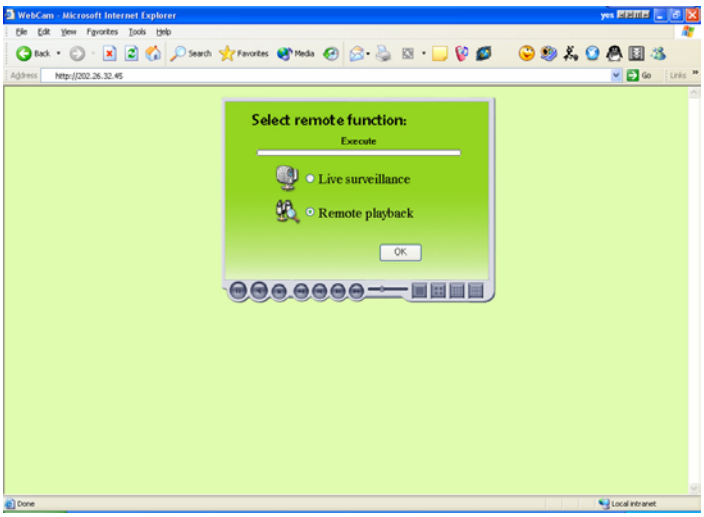


Figure 7.14 Remote surveillance and playing back services selection

Select ‘Remote playing back’ and click ‘OK’,

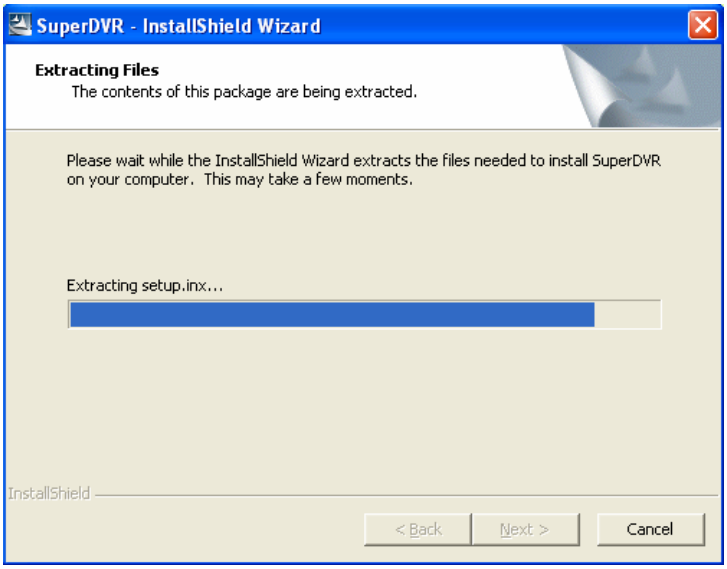

SuperDVR - InstallShield Wizard
Extracting Files
The contents of this package are being extracted.
Please wait while the InstallShield Wizard extracts the files needed to install SuperDVR on your computer. This may take a few moments.
Extracting setup.inx...
InstallShield
< Back
Next >
Cancel

Figure 7.15 installing remote playing back program

Notice:

In case users have already installed the remote playing back program before and SuperDVR version has not been changed, there is no need to download and install it again, it will go to Figure 7.20 directly.

After initialization has been completed, users need to install the program. First select installation path as below:

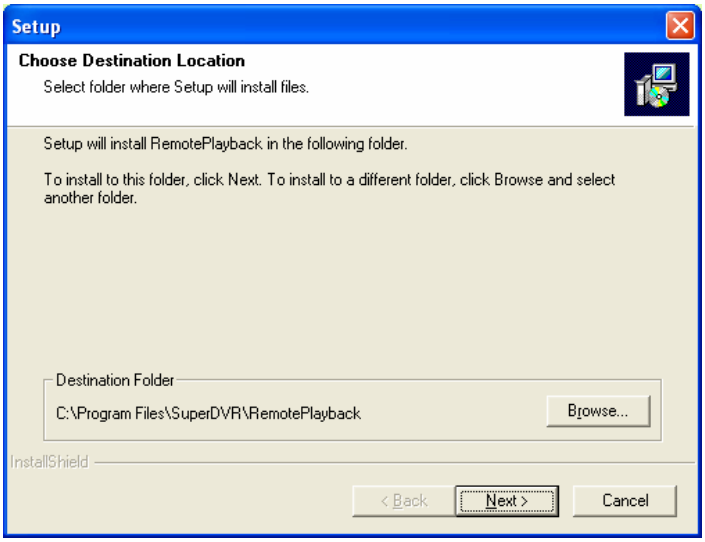

Setup
Choose Destination Location
Select folder where Setup will install files.
Setup will install RemotePlayback in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\SuperDVR\RemotePlayback
Browse...
InstallShield
< Back
Next >
Cancel

Figure 7.16 Default install path

Users can set another path by clicking ‘Browse’. Click ‘Next’ to continue:

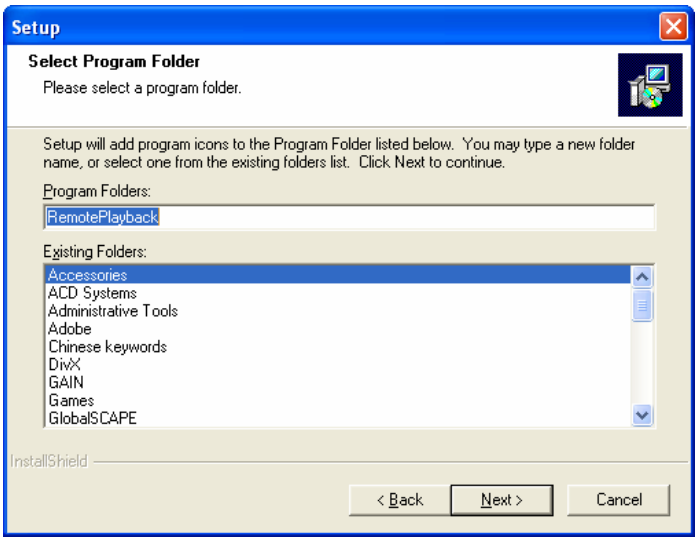


Figure 7.17 Register program folder name

Click ‘Next’ after inputting the folder name or selecting the default name, then the following Figure appears:

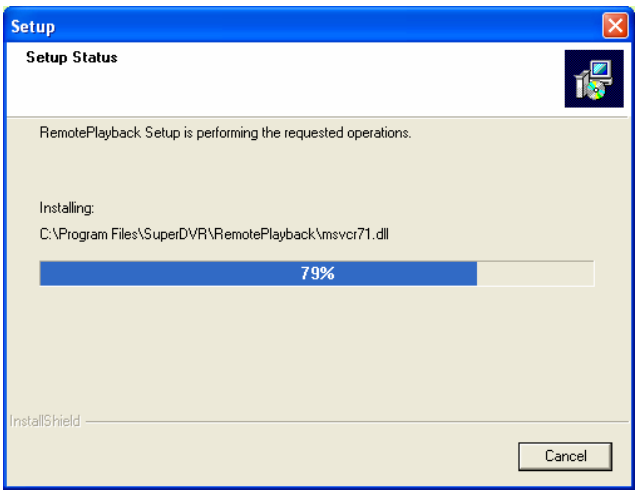


Figure 7.18 Playing back program installation process rate

And then click ‘Finish’ to finish installation as below:

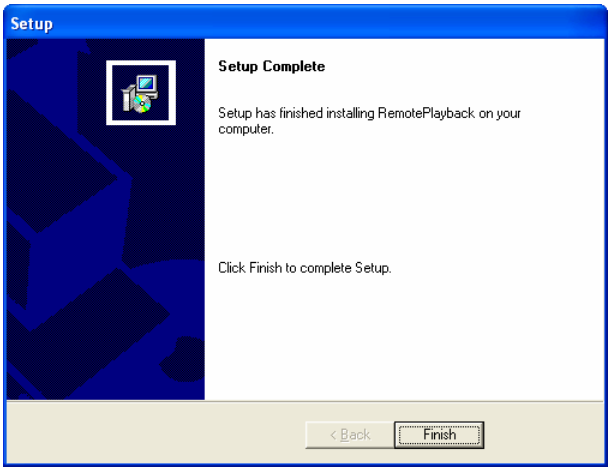


Figure 7.19 Installation success

Then the playing back client-side main interface will appear as below:

Figure 7.20 Remote playing back client-side main interface

Corresponding Explanations:

- : Log in
- : Minimum
- : Setup
- : Exit
- : Play
- : Pause

: Begin / Stop record

: Slow down playing speed

: Accelerate playing speed

: Play at the original speed

Remote playing back Configuration and Control

Setup

Before logging in the server, first click and make corresponding settings,

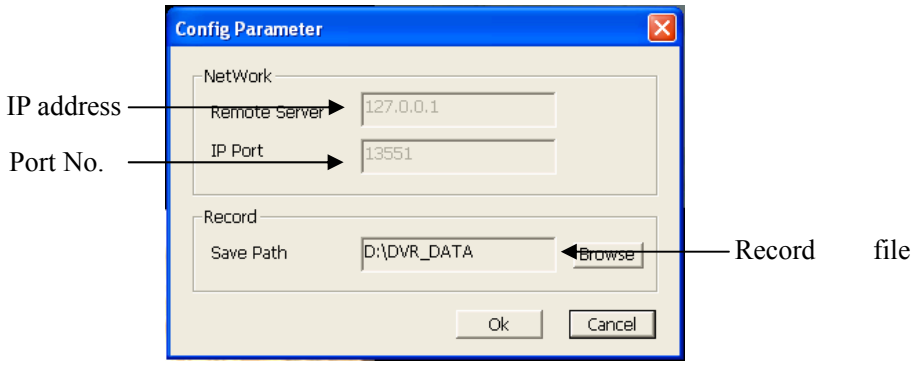


Figure 7.21 Client-side configuration

Log in Remote Playing back System

Click after making up certain configurations, and the

following window appears.

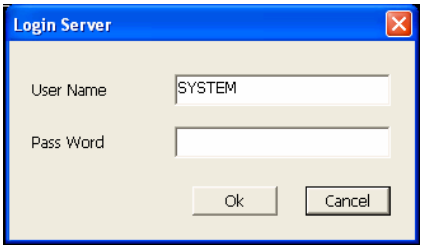


Figure 7.22 Login remote playing back system

Input the right user name and password and enter the remote playing back main interface as below:

Note:

The default User name is SYSTEM with no password. Users can set user name and password at the server end (refer to Figure 4.23).

Figure 7.23 Remote playing back main interfaces

Control playing back

Select the time period for playing back

Once login the system, the setup button and login button are disabled. Click and the following window appear.

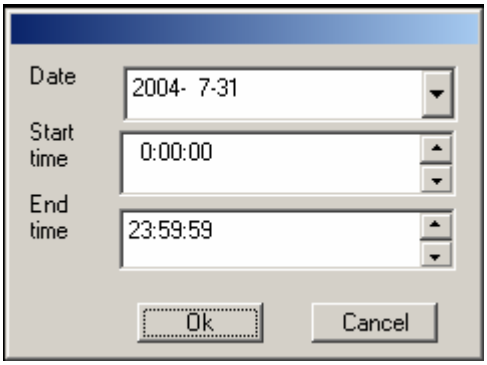


Figure 7.24 Select date/time period for playing back

Select the date / time, then click ‘OK’ to save the setting and return to the main interface. Click ‘Cancel’ to give up setting. The selected time / date will appear at the left bottom of the screen.

Play Control

Click and begin to play the recorded files. Press to pause. Users can draw the lever as below to select time to play.

Figure 7.25 Time control Lever

The following area is for users to control the play speed.

Figure 7.26 Play speed control module

Remote Record

Click and begin to record remotely. And the icon changes to . Click it again and stop recording. Users can select save path and compression format before logging in the system.

Mobile Surveillance

Introduction to Mobile Surveillance

In SuperDVR system, the mobile surveillance can be realized by connecting the mobile phone to the system. For time being, the function is supported by Windows Mobile system and Symbian Series 60 Developer Platform 2.0 intelligent mobile phone system. So far, the types of phones on which the function has been tested include mini 02, Xda II, Xda Atom, pocket PC phone edition, dopod 696, dopod 900, dopod 838, which are based on Windows Mobile system, and Nokia 6260, Nokia N70, Nokia 3230,

Nokia6680 based on Smybian Series 60 system.

Client Configuration of Windows Mobile

Server configuration on SuperDVR needs to be set before the function on phone is activated. Please refer to Section 7.1 “Remote Live Surveillance”.

Firstly activate the network access on mobile phone and then run “Internet Explorer” after the server configuration has been done. Input the server’s address and the connection is built up shown as below:

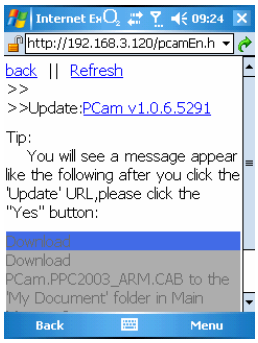


Figure 7.27 connected to the server

Click “PCam v1.0.6.5291”. A dialog box pops up:

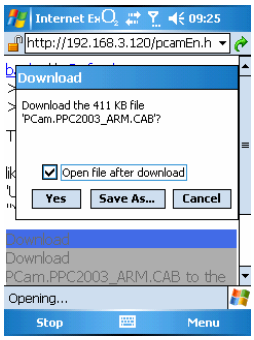


Figure 7.28 Downloading dialog box

Please click “Yea” to start installing:

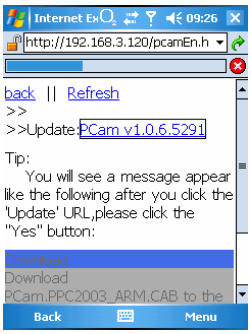


Figure 7.29 Downloading status information

PCam will be opened after the download is finished:

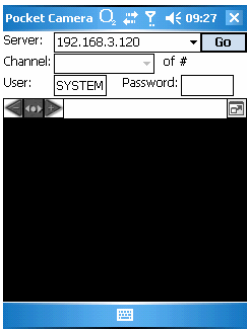


Figure 7.30 Main layout of PCam

Input the server's address, username and password respectively in the columns of "Server", "User" and "Password" and click "Go" to log on the server. Successful log on information appears if the server address, username and password are all correct.

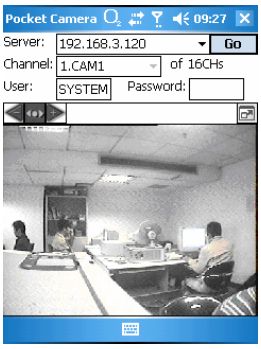


Figure 7.31 Log on system successfully

Channel one is the default displaying channel after log on successfully. Changing channel can be approached by selecting the channel in rolling-down menu of "Channel":

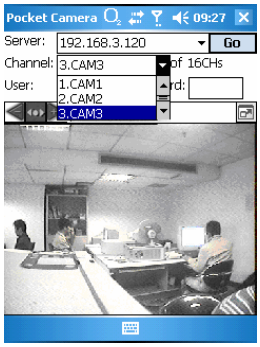


Figure 7.32 selecting channel

Click “Stop” to disconnect the communication with the server.

Client Configuration of Symbian 60

Server configuration on SuperDVR needs to be set before the function on phone is activated. Please refer to Section 7.1 “Remote Live Surveillance”.

Firstly enable the network access on mobile phone and then run Web browser after the server configuration has been done. Input the server’s address and then the connection is built up shown as below:

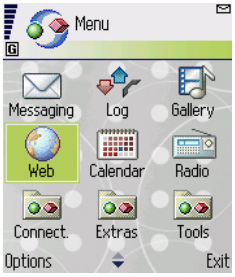


Figure 7.33 Open Web Browser

Input the server address in a new-built bookmark. Click this bookmark to connect to the server.

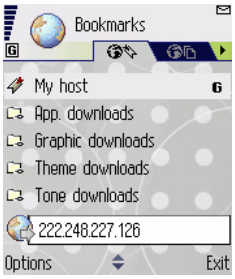


Figure 7.34 Build a bookmark

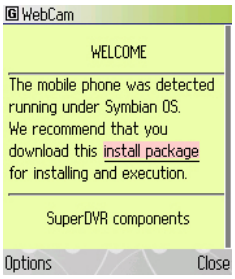

WebCam
WELCOME
The mobile phone was detected running under Symbian OS. We recommend that you download this install package for installing and execution.
SuperDVR components
Options
Close

Figure 7.35 Connect to the server

Click “install package” to start downloading and a confirmation information window pops up after downloading is finished.

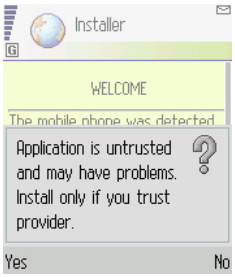


Figure 7.36 Confirmation Information window

System reminds of whether to install the “SCam” if clicking “Yes”:

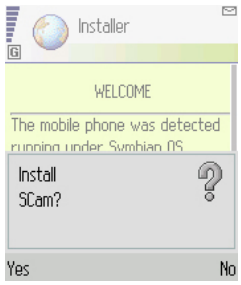


Figure 7.37 Installing information

Click “Yes” to start installing. A Scam shortcut icon appears on the desktop after the installation has been done.

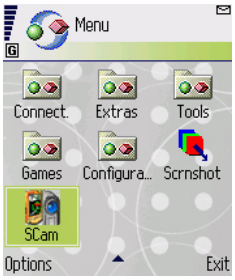


Figure 7.38 Scam shortcut icon in system menu

Run “Scam” by clicking the icon:

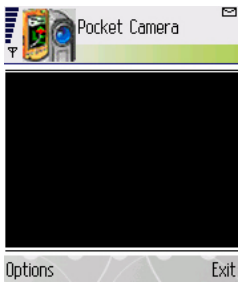


Figure 7.39 Main layout of Scam

Enter the main menu by clicking “Options”,

Figure 7.40 Main menu of Scam

Click “Setting” to set the log-in information,

Figure 7.41 Configure log-in information

Click “Login” to build up the communication with server,

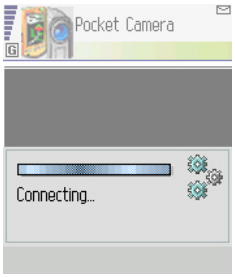


Figure 7.42 Connecting to the server

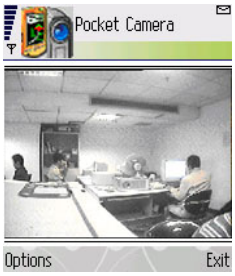


Figure 7.43 Log on successfully

Appendix 1: Differences among TD Series Card

Card	TD300	TD300	TD301	TD311	TD321	TD331	TD310	TD310	TD410
Item	4	8	6	6	6	6	1	4	4
Video Input	4	8	16	16	16	16	1	4	4
Audio In	PC Audio	PC Audio	PC Audio	PC Audio	PC Audio	16	1	2	4
Alarm Output	1	0	16	16	0	0	0	0	0
Alarm In	4	0	16	16	0	0	0	0	0
Relay Output	1	0	1	1	1	0	N	N	N
Watch Dog	N	Y	Y	Y	Y	N	N	N	N
Call Monitor	N	N	Y	N	Y	Y	N	N	N
Manual Gain	Y	Y	Y	N	N	Y	N	N	N

Notice: by adding Alarm Card, TD3316、TD4104 support 16 channels Alarm in、4 channels Alarm output and 1 channel Relay Output.

Appendix 2: Frequently Asked Questions

Appendix 2.1: About Installation

Appendix 2.1.1 Cannot Install the SuperDVR Driver

Possible causes:

- (1) TD series capture card hasn't been installed. Before installing driver, users should install capture card hardware in the PCI slot in the computer case.
- (2) TD series capture card hasn't been installed correctly. Please unplug the card and install it again or change to another PCI slot
- (3) Not compatible with PC hardware.

Appendix 2.1.2 Why cannot run SuperDVR at the windows 2003 operate system?

- Enabled Hardware Acceleration and DirectX Acceleration:
- Hardware Acceleration: click properties of display′ s Table setting advanced "Trouble shooting", pull the hardware acceleration spooler of the page to full , click "ok" and Exit.
- DirectX Acceleration: click "start" →"Run", input "dxdiag" and click "enter", Come into the "DirectX Tools", select "Display", click and enabled the three buttons "DirectDraw 、Direct3D and AGP Texture".

Appendix 2.1.3 'Unspecified error' in the End of Installation

Possible causes as below:

- On English version Window XP system, by using driver below SuperDVR3.0.2, the unspecified error will appear, as the

databases are not well compatible.

- Microsoft Windows system database has been destroyed. Reinstall windows system or try to install SuperDVR driver above SuperDVR3.1.1 to solve the problem.
- Relative Windows support files has been lost or been destroyed, need to reinstall window system, or try to install SuperDVR driver above SuperDVR3.1.1 to solve the problem.

Appendix 2.1.4 Can't find TD series Devices in Device Manager

- Enter the Device Manager and cannot find corresponding TD series Devices, the possible cause may be as below:
- Windows system error. Restart computer.
- TD series card error. Change for a valid one.
- Install SuperDVR

Appendix 2.2 How to Use SuperDVR

Appendix 2.2.1 Meanings of the indicator lights

- Grey — Normal state
- Red — Sensor alarm
- Yellow — Motion detection alarm
- Blue — Video loss
- Bottle Green — Manual record state
- Reseda — Schedule record state

Note:

Users can refer to Figure 3.6 to learn more.

Appendix 2.2.2 How does the different record mode work?

- Users can set more than one record modes in Record setup (refer

to Figure 3.5), but actually, there is only one valid record mode for recording.

- The priority order of the record modes is: Sensor Alarm Record > Motion Detection Record > Manual Record > Schedule Record

Appendix 2.2.3 How to set recycling record mode on the system?

- Select 'Recycle' in basic configuration, refers to Figure 4.1.
- Users can select multiple HDD partitions to save record files. It won't cover former files until all the partitions' available storage spaces are less than 100MB.
- In case users haven't enabled recycling record mode and the partitions' storage spaces are less than 100MB, the alarm will ring and the HDD usage indicator will turn red.

Tips:

It is recommended that install SuperDVR into the partition installed with windows system (normally C:), and save record files in HDD partition D:

Appendix 2.2.4 How to set auto reboot function?

- In case Microsoft Windows system continuously runs for a couple of days, the system may become unsTable , therefore it's suggested to restart the computer every few of days.
- In the basic configuration (refer to Figure 4.1), input Windows user name and password (Note: not SuperDVR user name and password), and select time interval, then the Windows system will automatically restart according to the set time.
- In case the Windows system closed abnormally, i.e. power supply is cut off, and when computer reboot next time, SuperDVR

system will automatically restart, and keep the settings as before.

Tips:

Users do not need enable auto reboot function, but it's suggested to input the Windows user name and password in the relative area, therefore when meeting abnormal system exit, users don't need to be troubled to input Windows and SuperDVR user names and passwords.

Appendix 2.2.5 How to quickly use the schedule record function?

- Press 'Shift' or 'Ctrl' key, and draw the cursor in corresponding areas to make schedules for multiple channels.

Appendix 2.2.6 What are the byte rates for different image qualities from highest to normal?

- When on PAL system and the frame rate is 25 fps, bit rate for the highest image quality is about 120K Byte/s, and for the lowest image quality is about 30K Byte/s.

Appendix 2.2.7 The frame rate seems to be lower than what I set?

- There is frame loss in image switch therefore the real record frame rate is about relatively lower than the theoretic value.

Appendix 2.2.8 Why I can't select more channels to backup?

- Please draw the mouse in the channel selection area, or utilize Shift and Ctrl key for assistance.

Appendix 2.2.9 When should I select manual Gain Control?

- In case the video signal is seriously decreasing, and the color images turn to black and white, use manual gain control may of be helpful.

Appendix 2.3 How to Use Network Function

Appendix 2.3.1 How to monitor on the client-side?

- First enable 'Web cameras service' in basic configuration (refer to Figure 4.1).
- Input the server Internet address in IE browser on the client-side, and the necessary web cam driver will be downloaded automatically, then users need to install the driver. After access the web cam main interface, click 'login' and input user name and password to log in the system. (Refer to Chapter 7 to learn more)

Appendix 2.3.2 Why I can't download the client-side software?

The possible causes:

- The client-side computer hasn't properly connected to Internet or LAN.
- The server-end hasn't enabled 'web cameras service'
- The default Http port is 80. It may be conflict with other Web servers, for example IIS. If true, please change another port.
- Windows XP SP2 will block the OCX download. You should enable 'Internet Option → Security Settings → Download unsigned ActiveX controls'.

Appendix 2.3.3 Why can't the server be configure d at the

client-side?

The possible causes:

- It can not be configure d at the client-side, when the server is being configured d at the server-end.
- Only the last configuration is valid if server different configuration is deployed simultaneously.

Appendix 2.3.4 Why I can't see the images?

The possible causes:

- The VGA card is too outdated.
- Have not installed newer DirectDraw.
- SuperDVR cannot run in Window 98 system.
- Data port or command port is conflicts with other network services.
- The user is connected to Internet through LAN, and the network administrator hasn't enabled corresponding data port or command port.
- The client-side has installed firewall software that may stop video transmission.
- MPEG4 codec has not been installed properly, please download new version WebCam.
- Bad network speed.

Appendix 2.3.5 What should I do if the Internet speed is quite slow?

- The more channels opened, and the slower the video transmission speed, therefore try to use one channel display mode when the network speed is slow.

Tips:

There may be some surplus channels that have no video input. Switching off the channels is of help to improve transmission speed. (Refer to Basic Configuration about switching on/off channels.)

Appendix 2.3.6 Why I can't start WebCam server or RPB server?

Possible causes:

- Other software is using these ports. If so, please change WebCam ports configuration or stop other software.

Appendix 2.4 Other questions

Appendix 2.4.1 Why computer display doesn't work, and why I can't access window system?

- The capture card may not be well installed. Unplug the card and try it again.

Note:

Please unplug the power plug of the computer, so as to avoid damaging the motherboard chip set.

Appendix 2.4.2 Why I can't find the recorded files?

- HDD space is not enough.

Appendix 2.4.3 Why the screens display is uns Table with dithering and water-wave images?

Possible causes:

- Camera electrical power is not enough.
- There is external electromagnetic disturbance, or electrostatic disturbance of camera BNC connector (It's suggested to connect

ground wire to the connector).

- User hasn't installed necessary VGA driver.
- VGA card problem. Try reinstalling the VGA card, or changing another VGA card.

Appendix 2.4.4 Why does it delay to play back, and it's slow to close and open the driver?

Possible causes:

- Windows system problem. Try to reboot the computer.
- There are too many recorded files or too many fragments on the HDD, therefore it takes time to search for the files, you need delete the files that you don't need, or need to make disk defragmenter now.
- Capture card problem.
- Computer hardware system is too outdated.

Appendix 2.4.5 Why I can't play back?

- Windows media player has been damaged, or decoder hasn't been installed properly. It's suggested to reinstall the relative software system.
- Computer problem, recorded files have been damaged. It's suggested to fix these files using SuperAVIFix program.

Appendix 2.4.6 Why do I see some gray blocks on time progress bar area when play back?

Possible causes:

- User has deleted these recorded files.
- SuperDVR has deleted recorded file when recycle option being is

chosen.

- Recorded files can't be opened because the recording is on.

Appendix 2.4.7 Why do I see some old record sections that can't be covered when play back?

Possible causes:

- You have ever selected disk partitions different from the current.
- These recorded files are being played back when covering it.
- Database of recorded log was damaged.
- You have ever installed SuperDVR on different directories.

Appendix 3 Quick Start for Using

Before installing the PCI card, check PC requirements:

- P III 800 MHZ
- 256 MB RAM
- Windows 2000 (SP4 min) or Win XP (SP1 min)
- NVIDIA Video Card with 32 MB min or similar
- DirectX 9.0 minimum
- 80 GB HDD

Installation Instruction:

- Insert the PCI card. (But do not connect the Camera yet.)
- Launch windows
- Windows will come up with Hardware wizard. Just click CANCEL
- Put the installation CD in and open up SuperDVR folder run the "setup file"
- Follow the steps and in Windows XP, it will come up with a

message say this program has not passed windows logo testing, just “Continued anyway”

- Reboot computer once it is completed.

FOR COMPLETE INSTRUCTIONS, REFER TO THE MANUAL.

Once Boot up, On Desktop there will be “SuperDVR” icon opened well.

If this program recognizes the PCI card, program will open just fine. Please log in first to the program.

Once your program is opened, now connect the Camera.

Done.

Troubleshooting:

When opening the SuperDVR program, it says “Can’t find card”

- Reboot one more time. If still same problem, click Start program SuperDVR Install and then Uninstall. Reboot computer. After reboot, go back to start program SuperDVR install. Now click on INSTALL to reinstall driver. Then Reboot.
- If for some reason still “can’t find card”, uninstall driver again. Shut down computer. Move PCI Card to another slot. Reboot. And CANCEL when windows detect it.
- Then reinstall driver by going to start program SuperDVR install.

FOR OTHER SETTINGS IN THE PROGRAM PLEASE READ THE MANUAL.

Q: How to setup the web client to monitor from Internet?

A:

- On Main Computer where the DVR card installed:
- Make sure the computer connected to Internet. DSL or Cable Modem preferably.
- Find out your IP address. You can go to this link to find the IP address http://lawrencegoetz.com/programs/ipinfo/
- Open up the SuperDVR program and go to basic configuration. Check and ENABLE Web Camera Service and Remote Play Back Service.
- Make Note on Data Port, Command Port and RPB port.

NOTE: IF YOU ARE CONNECTING TO INTERNET USING ROUTER, YOU NEED TO configure THE SETUP OF THE ROUTER AND DO THE PORT FORWARDING. PORTS THAT NEED TO BE FORWARDED: 80, 1159, 1259 AND 13551. CHECK YOUR ROUTER MANUAL ON HOW TO SETUP THAT.

On Remote Client Computer:

Minimum Requirement for the client computer:

- P III 800 MHZ
- 256 MB RAM
- Windows 2000 (SP4 min) or Win XP (SP1 min)
- NVIDIA Video Card with 32 MB min or similar
- DirectX 9.0 minimum
- 80 GB HDD

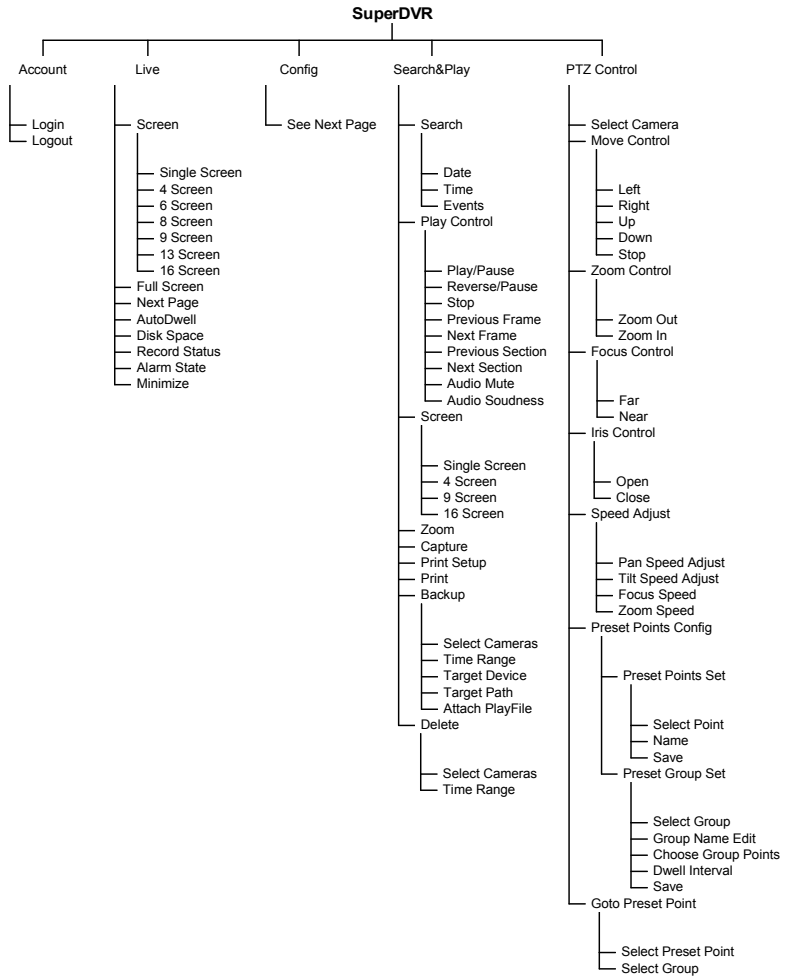
Open up Internet Explorer.

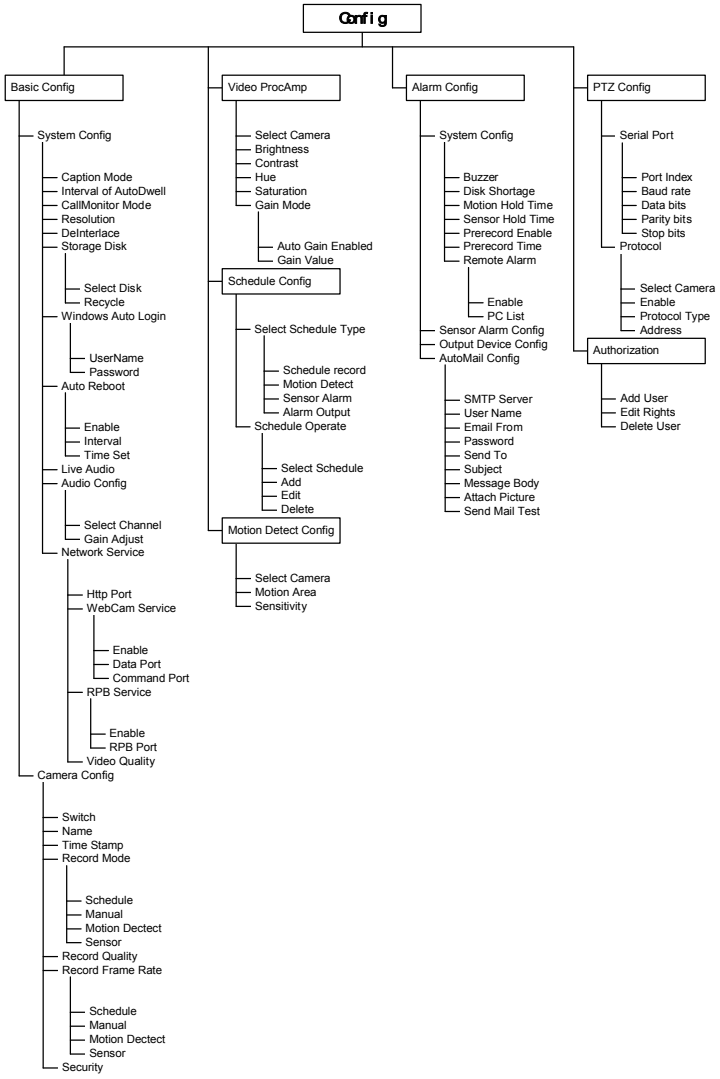
If you are running XP with SP2 do the following: on Internet explorer, click on TOOLS and Internet Option. Security Tab, Custom Level, and "ENABLE DOWNLOAD UNSIGNED ACTIVEX CONTROLS"

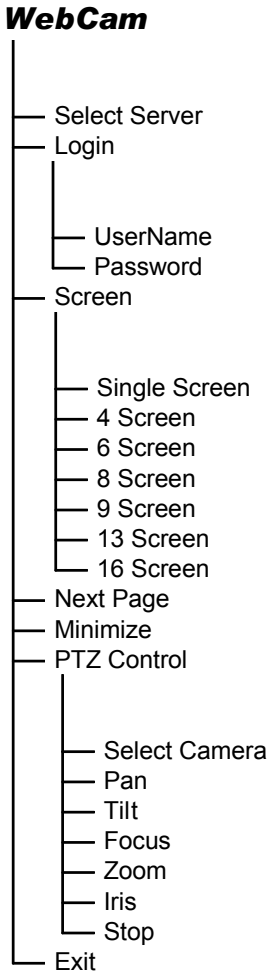
- In the column of the Internet explorer, type in the IP address of Main Computer
- Click OK on Live Surveillance. This will download the webcam program. And then you can download Remote Playing back as well.
- On Desktop now you should see WEBCAM and REMOTE PLAYING BACK icon.
- Open up webcam, click on KEY symbol icon, user name: system. Password blank unless you setup a password within the main computer. Server: this the IP address of the main computer. Data port: 1159 and Command port: 1259. Click OK. Now you should be able to view the live video from main computer.
- To Play Back the VIDEO that has been recorded in Main Computer, Open up REMOTE PLAYING BACK.
- Click on CONFIGURE. Remote server: the IP address of main computer. IP port: 13551. OK
- Click LOGIN. OK. Now you should be able to play back the recorded video from main computer.

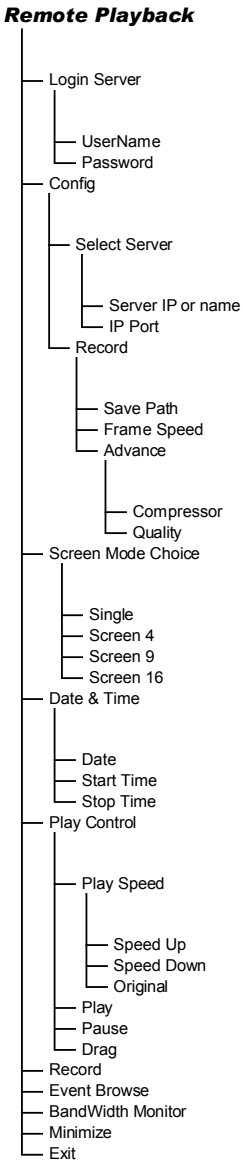
FOR MORE DETAILS INFO: READ THE MANUAL.

Appendix 4 Function Tree




Config
Basic Config
System Config
Caption Mode
Interval of AutoDwell
CallMonitor Mode
Resolution
DeInterlace
Storage Disk
Select Disk
Recycle
Windows Auto Login
UserName
Password
Auto Reboot
Enable
Interval
Time Set
Live Audio
Audio Config
Select Channel
Gain Adjust
Network Service
Http Port
WebCam Service
Enable
Data Port
Command Port
RPB Service
Enable
RPB Port
Video Quality
Camera Config
Switch
Name
Time Stamp
Record Mode
Schedule
Manual
Motion Dectect
Sensor
Record Quality
Record Frame Rate
Schedule
Manual
Motion Dectect
Sensor
Security
Video ProcAmp
Select Camera
Brightness
Contrast
Hue
Saturation
Gain Mode
Auto Gain Enabled
Gain Value
Schedule Config
Select Schedule Type
Schedule record
Motion Detect
Sensor Alarm
Alarm Output
Schedule Operate
Select Schedule
Add
Edit
Delete
Motion Detect Config
Select Camera
Motion Area
Sensitivity
Alarm Config
System Config
Buzzer
Disk Shortage
Motion Hold Time
Sensor Hold Time
Prerecord Enable
Prerecord Time
Remote Alarm
Enable
PC List
Sensor Alarm Config
Output Device Config
AutoMail Config
SMTP Server
User Name
Email From
Password
Send To
Subject
Message Body
Attach Picture
Send Mail Test
PTZ Config
Serial Port
Port Index
Baud rate
Data bits
Parity bits
Stop bits
Protocol
Select Camera
Enable
Protocol Type
Address
Authorization
Add User
Edit Rights
Delete User


WebCam
Select Server
Login
UserName
Password
Screen
Single Screen
4 Screen
6 Screen
8 Screen
9 Screen
13 Screen
16 Screen
Next Page
Minimize
PTZ Control
Select Camera
Pan
Tilt
Focus
Zoom
Iris
Stop
Exit


Remote Playback
Login Server
UserName
Password
Config
Select Server
Server IP or name
IP Port
Record
Save Path
Frame Speed
Advance
Compressor
Quality
Screen Mode Choice
Single
Screen 4
Screen 9
Screen 16
Date & Time
Date
Start Time
Stop Time
Play Control
Play Speed
Speed Up
Speed Down
Original
Play
Pause
Drag
Record
Event Browse
BandWidth Monitor
Minimize
Exit